

BRITISH CHEMICAL AND PHYSIOLOGICAL ABSTRACTS

ISSUED BY THE

BUREAU OF CHEMICAL AND PHYSIOLOGICAL ABSTRACTS

[Supported by the Chemical Society, the Society of Chemical Industry, the Physiological Society, the Biochemical Society, and the Anatomical Society of Great Britain and Ireland]

ABSTRACTS A INDEX 1943

BUREAU :

Chairman : L. H. LAMPITT, D.Sc., F.I.C.

Hon. Treasurer : F. P. DUNN, B.Sc., F.I.C.

JULIAN L. BAKER, F.I.C.

G. L. BROWN, M.Sc., M.B., Ch.B.

H. W. CREMER, M.Sc., F.I.C., M.I.CHEM.E.

C. W. DAVIES, D.Sc., F.I.C.

H. J. T. ELLINGHAM, B.Sc., Ph.D., F.I.C.

C. R. HARINGTON, M.A., Ph.D., F.R.S.

L. A. JORDAN, D.Sc., F.I.C.

G. A. R. KON, M.A., D.Sc., F.R.S.

H. McCOMBIE, D.S.O., M.C., Ph.D., D.Sc., F.I.C.

B. A. MCSWINEY, B.A., M.B., Sc.D.

F. G. YOUNG, D.Sc., Ph.D.

Editor : T. F. BURTON, B.Sc.

Indexer : MARGARET LE PLA, B.Sc.

P.323/43/IV

Printed in Great Britain
by Butler & Tanner Ltd.,
Frome and London

INDEX OF AUTHORS.

ABSTRACTS A, 1943.

An asterisk denotes a previous extract.

Anonymous, determination of sodium by uranyl zinc acetate method, I, 24. Advances in enzymology, III, 152. Congenital cataract following German measles in mother, III, 470. Colour blindness, III, 641.

A.

Aaron, A. H. See **Hubbard, R. S.**, and **Lipp, W. F.**

Abaeva, S. S., effect of high temperatures on viability of pollen in cotton (in relation to premature fruit dropping), III, 290.

Abarbanel, A. R., clinical evaluation of adjunctive therapy with stilboestrol monomethyl ether with comments on toxicity, III, 116.

See also **Leathem, J. H.**, and **Richman, M. J.**

Abbie, A. A., cortical lamination in *Perameles nasuta*, III, 382.

Abbott, G. A., and **Russek, H. I.**, calcareous aortic stenosis in case of dextrocardia with situs inversus, III, 231.

Abbott, L. A., and **Saunders, J. B. de C. M.**, acute traumatic dislocation of tendon of long head of biceps brachii, III, 365.

Abbott, L. D., jun., availability of formylglycine, acetylglycine, and propionylglycine for synthesis of hippuric acid by the rabbit, III, 45.

Abbott, R. K., jun. See **Gilman, H.**

Abbott, W. E., and **Mellors, R. C.**, total circulating plasma-proteins in surgical patients with dehydration and malnutrition: indications for intravenous alimentation with amino-acids, III, 374.

Abbott, W. O., **Hartline, H. K.**, **Hervey, J. P.**, **Ingelfinger, F. J.**, **Rawson, A. J.**, and **Zetzel, L.**, intubation studies of human small intestine; measuring intra-luminal pressures and application to digestive tract, III, 653.

Abderhalden, E., structure of silk fibroin, II, 75. Occurrence of *d*-glutamic acid in protein of malignant tumours and healthy organs, III, 402.

and **Pitschak, G.**, *r*- β -hydroxyglutamic acid, II, 24.

Abel, M. S., specific dynamic action (SDA) of protein, III, 504.

Abelin, I., iodinated proteins and their action, II, 179. Nutritional problems, III, 185. Colorimetric test for urea, III, 616. Hormonal equilibrium, III, 644. Inter-hormonal relations [on liver-glycogen], III, 734.

See also **Rhyn, E.**

Abell, R. G., and **Page, I. H.**, reaction of peripheral blood vessels to angiotonin, renin, and other pressor agents, III, 380.

See also **Page, I. H.**

Abels, J. C., **Martin, Hayes E.**, **Rekers, P. E.**, and **Rhoads, C. P.**, relationship between dietary deficiency and occurrence of papillary atrophy of tongue and oral leukoplakia, III, 40.

Pack, G. T., and **Rhoads, C. P.**, metabolic studies in patients with cancer of the gastrointestinal tract. XVII. Conjugation of phenols, III, 897.

Abels, J. C. See also **Klopp, C. T.**, and **Rekers, P. E.**

Abercrombie, M., and **Johnson, M. L.**, Wallerian degeneration and cell activity, III, 636.

Abernethy, J. L. See **Savoy, (Miss) C. M. S.**, and **Schmidt, H. R.**

Abernethy, T. J. See **Bukantz, S. C.**

Abidov, S. A. See **Chlopkin, V. G.**

Abraham, A. See **Kumar, L. S. S.**

Abraham, E. P., **Chain, E.**, **Baker, W.**, and **Robinson, (Sir) R.**, penicillamine, a degradation product of penicillin, II, 115.

Abraham, S. V., near horizontal phoria and duction tests, III, 468. Convergence function in relation to basal metabolism, III, 729.

Abrahamszik, E., isothermal diffusion method of preparing highly purified microchemical reagents, I, 26.

Abrahams, H. J., Tyndall cone apparatus, I, 238.

Abrahamson, E. M., nomographic chart for colorimeter, III, 76.

Abrahamson, R. H., **Church, R. E.**, and **Hinton, J. W.**, hormone effects on male gastroduodenal mucosa [use of oestrogen in chronic duodenal ulcer], III, 395.

and **Hinton, J. W.**, carcinoma of stomach, III, 333.

Abramovitch, B., and **Hauser, C. R.**, condensations. XVII. Acylation of anions of alkyl esters by phenyl esters; preparation of ethyl propionylacetate and related β -keto-esters, II, 81. Acylation of acetonitrile by ethyl *n*-butyrate; alcoholysis of resulting keto-nitrile to ethyl *n*-butyrylacetate, II, 83.

Shivers, J. C., **Hudson, B. E.**, and **Hauser, C. R.**, synthesis of *tert*-butyl esters, II, 250.

See also **Adams, J. T.**, and **Hauser, C. R.**

Abramowitz, E. W., **Mattice, M. R.**, and **Botvinick, I.**, sodium thiosulphate in arsenical dermatitis, III, 678.

Abrams, I., and **Sollner, K.**, structure of collodion membrane and its electrical behaviour. VI. Protamine-collodion membrane, a new electropositive membrane, I, 180.

Abrams, R. See **Miller, B. F.**

Abramson, D. See **Crabtree, E. G.**

Abramson, D. I., resting blood flow and peripheral vascular responses in extremities, III, 461.

Benjamin, J. E., and **Landt, H.**, peripheral vascular response to acute anoxia, III, 722.

Fierst, S. M., and **Flachs, K.**, effect of muscular exercise on peripheral circulation in patients with valvular heart disease, III, 378.

Flachs, K., **Freiberg, J.**, and **Mirsky, I. A.**, blood flow in extremities affected by anterior poliomyelitis, III, 868.

Abramson, H. A., **Engel, M. G.**, and **Gettner, H. H.**, skin reactions; quantitative studies of whealing, III, 926.

Engel, M. G., and **Moore, D. H.**, skin reactions to electrophoretic fractions of timothy pollen extract, III, 532.

Gettner, H. H., and **Moore, D. H.**, general electrophoretic pattern in extracts of pollens causing hay fever, III, 443.

Abramson, H. A. See also **Bender, M. B.**

Abramson, M. See **Newman, H. W.**

Abreu, B. E., and **Woodbury, R. A.**, blood pressure and respiratory changes produced by strychnine convulsions, III, 911.

Abribat, M., new bands in ultra-violet absorption spectrum of gelatin, I, 49.

Abt, A. F., vitamins in infant nutrition, III, 41.

Farmer, C. J., **Hardy, L. M.**, and **Maaskens, J. D.**, relation of vitamin-C to scarlet fever, rheumatic infections, and diphtheria in children, III, 43.

Acharya, B. G. S., **Shah, R. C.**, and **Wheeler, T. S.**, synthetic production of camphor from pinene. IV. Oxidation of borneols to camphor, II, 239.

Acheson, G. H., **Lee, E. S.**, and **Morison, R. S.**, deficiency in phrenic respiratory discharges parallel to retrograde degeneration, III, 14.

Ackart, R. J. See **Syvertson, J. T.**

Ackerbauer, C. F., and **Lebowich, R. J.**, determination of methyl alcohol and formaldehyde in air, III, 448.

Ackerman, L. V., acute pancreatitis following blood transfusion, III, 301.

Ackerman, W. T. See **Hepler, J. R.**

Ackermann, D., and **Appel, W.**, nitrogenous constituents of jack-beans, III, 702.

Ackermann, I. See **Koszel, W.**

Ackroyd, S., **Harrison, G. A.**, and **Picken, L. E. R.**, transfusion of liquid filtered serum, III, 712.

Acree, F., jun. See **La Forge, F. B.**

Acree, S. F. See **Bates, R. G.**

Adair, F. E., clinical and experimental knowledge of breast conditions, III, 820.

See also **Farrow, J. H.**

Adair, F. L. See **Hac, L. R.**

Adam, A. B. See **Eckardt, R. E.**

Adam, G. S., Rh factor and its application to obstetric practice, III, 864.

Adam, K. See **Freudenberg, K.**

Adams, A. E., and **Beeman, E. A.**, reaction of chick thyroid to frog and mouse anterior pituitaries, III, 25.

Adams, C. C. See **Swartzwelder, J. C.**

Adams, C. O., **Compere, E. L.**, and **Jerome, J.**, regional fibrocystic disease of bone, III, 297.

Adams, D. F., and **Gilbertson, L. I.**, [volumetric] determination of selenious acid and selenites, I, 137.

Adams, E. M. See **Spencer, H. C.**

Adams, J. M., and **Cochrane, R. F.**, erythroblastosis in newborn, III, 454.

Adams, J. T., **Abramovitch, B.**, and **Hauser, C. R.**, condensations. XIX. Alkylation of β -keto-esters with alcohols and ethers in presence of boron trifluoride, II, 216.

See also **Hauser, C. R.**

Adams, M., and **Hudson, C. S.**, purification of invertase; properties of resulting products, III, 843.

Hudson, C. S., and **Richtmyer, N. K.**, enzymes present in highly purified invertase preparations; fructofuranosidases, galactosidases, glucosidases, andmannosidases, III, 844.

Adams, M. A., and **Taylor, F. H. L.**, thrombic activity of globulin fraction of plasma-proteins of bovine, swine, and human blood, III, 457.

- Adams, M. H. See Goebel, W. F., and Hoogeboom, G. H.
- Adams, R., Richard Willstatter, I, 168. [Pharmacology of] marihuana, III, 913.
- Anderson, A. W., McGrew, F. C., and Miller, M. W., restricted rotation in arylolefines. VI. Substituted β -2,7-dimethoxy-1-naphthyl- α -methylacrylic acids, II, 10.
- Binder, L. O., and McGrew, F. C., restricted rotation in arylolefines. V. β -Bromo- β -2-alkoxy-1-naphthyl- α -alkylacrylic acids, II, 10.
- and Carlin, R. B., addition of dienes to di-*o*-methoxycinnamic acids. II, II, 194.
- Carlin, R. B., McPhee, W. D., and Wicks, Z. W., addition of dienes to coumarin and substituted cinnamic acids, II, 205.
- Carmack, M., and Mahan, J. E., structure of monocrotaline. VII. Structure of retronecine and related bases, II, 113.
- and Gross, W. J., restricted rotation in arylolefines. IV. Preparation and resolution of β -chloro- β -3-chloro-6-methoxy-2,4-dimethylphenyl- α -methylacrylic and corresponding acrylic acid, II, 10.
- and Hamlin, K. E., jun., structure of monocrotaline. VIII. Proof of primary and sec. hydroxyl groups in retronecine, II, 113.
- Hamlin, K. E., jun., Jelinek, C. F., and Phillips, R. F., structure of riddelline, the alkaloid of *Senecio riddellii*. I, II, 176.
- Loewe, S., and Smith, C. M., optically active tetrahydrocannabinols. XIV. *d*- and *l*-3'-Hydroxy-2,2:4'-trimethyl-5''-n-amyl-3':4':5':6'-tetrahydrodibenzopyran, II, 69.
- Loewe, S., Smith, C. M., and Theobald, C. W., tetrahydrocannabinol analogues with marihuana activity. XV, II, 101.
- and Mahan, J. E., basicity studies of tert. vinylamines, II, 102.
- See also Beecher, H. K.
- Adams, R. M. See Brown, Herbert C.
- Adams, S. H., Davies, R. O., and Ashton, W. M., phosphorus poisoning, III, 268.
- Adams, S. L. See Novak, A. F.
- Adams, W. E., blood supply of nerves. II. Effects of exclusion of its regional sources of supply on sciatic nerve of rabbit, III, 382.
- and Escudero, L., disturbances in circulation and respiration in obstruction of blood flow to and from heart, III, 161.
- See also Phillips, F. J., and Rasmussen, R. A.
- Adams, W. L., comparative toxicity of chloral alcoholate and chloral hydrate, III, 911.
- Adams, W. S., prevention of chronic otitis and deafness, III, 236.
- See also Syverton, J. T.
- Adamson, D. W., anhydrides of basic amino-acids, II, 102.
- Adcock, E. M., permeability of *Gregarina*, III, 430.
- Adcock, J. D., spontaneous interstitial emphysema of lung, with mediastinal, retroperitoneal, and subcutaneous emphysema, III, 722.
- See also Talbot, T. R., jun.
- Addicott, F. T., effects of root-growth hormones on meristem of excised pea roots, III, 73.
- Adel, A., extension of prismatic solar spectrum from 14μ . to 24μ . through atmospheric window in the infra-red, I, 109.
- Ades, H. W., secondary acoustic area in cerebral cortex of rat, III, 387.
- See also Marshall, W. H.
- Adickes, F. See Lang, K.
- Adler, A., melanin pigment in gorilla brain, III, 382.
- Adler, C. See Vollmer, Hubert.
- Adler, E. See Kapeller-Adler, R.
- Adler, Erich, phenol-formaldehyde resins. IV. Hardening of resols; hardening of di-*p*-tolylmethane monoalcohol, II, 160.
- Bergstrom, B., and Euler, H. von, phenol-formaldehyde resins. VI. Hardening of di-*p*-tolylmethane dialcohol. VII. Cyclic ether from di-*p*-tolylmethane dialcohol, II, 160.
- Adler, Erich, Caspersson, A. O., and Tingstam, S., phenol-formaldehyde resins. XII. Hardening of resols; hardening of 3-bromo-2-hydroxy-5-methylbenzyl alcohol, II, 161.
- Cedwall, J. O., and Euler, H. von, phenol-formaldehyde resins. X. Hardening of resols; hardening of *p*-hydroxy-mesityl alcohol, II, 130.
- De Kispeczy, S., Euler, H. von, and Fagerlund, A. M., phenol-formaldehyde resins. III. Condensation with dihydroxybenzenes and dihydroxybenzene alcohols: a principle of Bakelite production from wood-tar phenols, II, 160.
- Eklund, G., Euler, H. von, and Torngren, O., phenol-formaldehyde resins. XI. Hardening of resols; formation of dihydroxydibenzyl ethers, II, 161.
- Euler, H. von, and Gie, G., formation of 2,4-dimethyl-1,3-benzodioxins and their fission to *o*-vinylphenols, II, 381.
- Euler, H. von, and Hasselquist, H., phenol-formaldehyde resins. V. Constitution of hardening product of di-*p*-tolylmethane monoalcohol, II, 160.
- Euler, H. von, and Skarzynski, B., vitamin-antivitamin. I. Reversible inhibition of dehydrogenases by removal of codehydrogenase, III, 839.
- See also Euler, H. von.
- Adler, F. H. See Scheie, H. G.
- Adler, H. F. See Grodins, F. S.
- Adler, M. See Hahn, F. L.
- Adler, S., and Ashbel, R., metabolism of tissues infected with *Leishmania donovani*, *L. infantum*, and *L. tropica*, III, 204.
- and Tchernomoretz, I., action of aromatic diamidines on infections of *Leishmania donovani* in Syrian hamster, *Cricetus auratus*, III, 50. Continued passage of extra-erythrocytic forms of *Plasmodium gallinaceum* in absence of erythrocytic schizogony [after quinine], III, 50. Action of 4:4'-diamidinostilbene on *Leishmania donovani* and *Leishmania infantum* in Syrian hamster *Cricetus auratus*, III, 137. Action of 4:4'-diamidinostilbene on various piroplasms, III, 419.
- Adlersberg, D., Grishman, E., and Sobotka, H., uric acid partition in gout and in liver disease, III, 45.
- and Sobotka, H., influence of lecithin feeding on fat and vitamin-A absorption in man, III, 821.
- Adolph, W. H., and Liang, C. C., fate of oxalic acid in the rat, III, 337.
- Adrian, E. D., electrical reactions of cochlea and auditory nerve, III, 475. Discharges from vestibular receptors in cat, III, 643.
- Adson, A. W. See Fatherree, T. J.
- Advani, G. D. See Mirza, B. E.
- Aebersold, P. C., cyclotron as nuclear transformer, III, 517.
- See also Osgood, E. E.
- Aeschbacher, R. See Goldberg, M. W.
- Afanasiev, M. M. See Balandin, A. A.
- Afremon, M. E. See Rhoads, P. S.
- Agar, H., peripheral arterial embolism, III, 869.
- Agar, W. E., Drummond, F. H., and Tiegs, O. W., inheritance of training in rats, III, 543.
- Agashe, L. V., Dharwar rocks occurring around Murgod in Belgaum District, I, 188.
- Agatov, P., effect of water extraction from leaves of tobacco on acyl derivatives of protein of tobacco mosaic virus, III, 289.
- Aggeler, P. M., Lucia, S. P., and Hamlin, L. M., blood clot retraction; measurement of extracorporeal volume of clot, III, 84.
- See also Lucia, S. P.
- Agliardi, N. See Schwab, G. M.
- Agner, K., crystalline horse-liver catalase, III, 841.
- See also Theorell, H.
- Agnew, S. See Arnett, J. H.
- Agnew, W. J., titrating precipitated arsenic, I, 162. Determination of chromic oxide in presence of chromium trioxide, I, 237.
- Agren, G., influence of peptide bond glycine in formation of new peptide linkings, II, 208. Stability of aminopolypeptidase in presence of pancreatic enzymes, III, 682.
- and Taylor, A., amino-aldehyde linkings, II, 154.
- Ahlgren, G. A. See Hedvall, J. A.
- Ahlquist, R. P., pharmacology of methyl-aminoisoctene (octin). I. Action on blood pressure, III, 762.
- Ahlstrom, L. See Euler, H. von.
- Ahmad, B., thiamin in human diets of north western parts of India, III, 823.
- Ahmed, H. See Murray, H. E.
- Ahrens, L. H., spectrochemical determination of tungsten in siliceous material, I, 185.
- Aibel, M. E. See Pelner, L.
- Aidinjan, M. C. See Saukov, A. A.
- Airan, J. W., and Shah, S. V., action of thionyl chloride on 2,3-hydroxynaphthoic acid, II, 34.
- See also Rege, A. V.
- Aird, R. B. See Naffziger, H. C.
- Airs, R. S., and Balle, M. P., conductometric titrations. I. Titration of acids in acetone-water mixtures. II. Analysis of complex mixtures of acids and salts, I, 182.
- Aitken, T. See Lehman, R. A.
- Aizenschadt, E. I., micro-determination of nitrogen in organic compounds by Kjeldahl's method, II, 316.
- Ajello, T., transformation of oximinopyrroles into pyrimidine derivatives, Ciamician's reaction, and constitution of nitrosopyrroles and pyrrole-aldehydes, II, 245.
- and Petronici, Signa.) C., transformation of pyrrole-into isoaxazole-derivatives, II, 246.
- Ajtai, N. See Bretschneider, H.
- Akelaitis, A. J., corpus callosum. V. Homonymous defects for colour, object, and letter recognition (homonymous hemianopia) before and after section of corpus callosum, III, 20. Orientation (temporal-spatial gnosis) following section of corpus callosum, III, 798.
- Risteen, W. A., Herren, R. Y., and Van Wagenen, W. P., dyspraxia and apraxia following partial and complete section of corpus callosum, III, 725.
- Akerlund, F. E. See Luce, E. N.
- Åkesson, A. See Theorell, H.
- Akiyama, H. See Tamamushi, B.
- Akulov, N., velocity of phase transformations, I, 93.
- Alamela, (Miss) B. S., and Ganapathi, K., action of sulphonazides on heterocyclic compounds, II, 343.
- Albanese, A. A., Brumback, J. E., jun., Frankston, J. E., Holt, L. E., jun., Kajdi, C. N., and Wangerin, D. M., nitrogen balance in experimental human deficiencies of methionine and cystine, III, 751. Biochemical lesion of lysine deficiency in man, III, 900.
- Brumback, J. E., jun., Hayes, M., Holt, L. E., jun., Kajdi, C. N., and Wangerin, D. M., nitrogen balance in experimental lysine deficiency in man, III, 662.
- Frankston, J. E., Holt, L. E., jun., and Kajdi, C. N., tryptophan deficiency in rats; chemical and morphological changes in blood, III, 662.
- See also Holt, L. E., jun.
- Albaum, H. G., and Cohen, P. P., transamination and protein synthesis in germinating oat seedlings, III, 853.
- See also DuBois, K. P., and Potter, V. R.
- Alben, A. O., Hammar, H. E., and Sitton, B. G., nutrient deficiency symptoms of pecan, III, 614.
- Alber, H. K. See Royer, G. L.
- Albericci, V. J., Curtin, T. P., and Reilly, D., sclerotiase, polysaccharide metabolite of *Penicillium sclerotiorum*, van Beyma, II, 321, 846.
- Albers, D., test of Prager polarographic diagnosis of cancer, III, 819. Effect of ultra-violet and X-rays on phosphatase; protein nature of the enzyme, III, 844.

- Albers, H., and Schmidt, W., autoxidation of Δ^a -unsaturated ketones. I. Peroxide formation and association processes, II, 353.
- Albers, V. M., Knorr, H. V., and Fry, D. L., spectroscopic studies of the simpler porphyrins. IV. Absorption and fluorescence spectra of *ms-tetra-(3':4'-methylenedioxyphenyl)-porphine* of hydrogen chloride number four and of its silver pyridine, zinc, and nickel complex salts, I, 80.
- Albert, A., chemistry and physics of antiseptics, III, 511.
- Albert, S., changes in adrenal function during "alarm" reaction, III, 322.
- and Selye, H., morphogenetic actions of oestradiol, III, 30.
- See also Leblond, C. P., and Selye, H.
- Albertini, A. von, differential diagnosis of apoplexy, III, 798.
- Albrecht, E. See Manegold, E.
- Albrecht, G., Schnakenberg, G. W., Dunn, M. S., and McCullough, J. D., quantitative investigations of amino-acids and peptides. XII. Structural characteristics of amino-acids, I, 177.
- Albrecht, M. See Lettré, H.
- Albrecht, R., and Bast, H. [with Büttner, M.], detection of silicic acid and hydrofluoric acid by tetrafluoride and oily drop tests, I, 314.
- Albright, F., Smith, P. H., and Fraser, R., syndrome characterised by primary ovarian insufficiency and decreased stature, III, 171.
- See also Klinefelter, H. F., jun., and Suby, H. I.
- Albritton, C. C., jun. See Smith, J. F., jun.
- Alden, R. H., oviduct and egg transport in albino rat, III, 561.
- Aldred, P., osmotic pressure of animal bloods, III, 374.
- Aldred, P. A. See Koschara, W.
- Aldrich, C. A. See Pierce, P. P.
- Aldrich, W. H., and Young, T. R., carbohydrate changes in date palm during summer, III, 535.
- Ale, T. See Mack, H. C.
- Alexander, A. B., binaural phenomenon of bone conduction—a tuning-fork test, III, 168.
- Alexander, A. E., surface tension of micelle-forming solutions, I, 35.
- Alexander, D. S. See McRae, J. A.
- Alexander, F., distribution of sulphanilamide [after injection into animals], III, 759.
- and Saul, L. J., respiration and personality, III, 95.
- Alexander, F. A. D. See Etsten, B.
- Alexander, H. A. See Hagen, W. S.
- Alexander, L. E., capacity of eyecup of *Fundulus* for induction and regeneration of lenses, III, 451.
- Alexander, L. J., Fox, E. C., and School, A. G., cisternal puncture, III, 235.
- Alexander, L. T., Faust, G. T., Hendricks, S. B., Insley, H., and McMurdie, H. F., relationship of clay minerals halloysite and endellite, I, 244.
- Alexander, M. See Grauer, R. C.
- Alexander, P., and Barton, D. H. R., excretion of ethyl-p-benzoquinone by flour beetle, III, 895.
- Alexander, R. C. See Sanders, M.
- Alexander, W. See Holmes, H. N.
- Alexander, W. A. See Cumming, W. M.
- Alexandrov, V. A., analytical washing bottle, I, 319.
- Alexeevski, N. E., hysteresis in pure superconducting metals, I, 148.
- Alford, W. C. See Hyslop, F.
- Algar, J., Hickey, A., and Sherry, P. G., synthesis of physiologically active amines; amines derived from phenyl styryl ketones, II, 297.
- Algic, W. H. See Angle, F. E.
- Alicata, J. E., active immunisation of dogs against leptospirosis by formalised leptospiral antigen III 921.
- Alimarin, I. P., and Frid, B. I., separation of rare metals by electrolysis with a mercury cathode, I, 237.
- and Ivanov-Emin, B. N., effect of germanium on iodometric determination of tin, I, 317.
- Allard, H. A., and Garner, W. W., response of plants to length of day, III, 292.
- Allee, W. C., Finkel, A. J., Garner, H. R., Evans, G., and Merwin, R. M., crowding and cleavage rates in sea-urchin eggs, III, 859.
- See also Finkel, A. J., and Merwin, R. M.
- Allemann, R. See Flaschentrager, B.
- Allen, B. B. See Henze, H. R.
- Allen, B. M., and Bern, H., influence of diethylstilbestrol on adrenal cortex of guinea-pig, III, 390.
- Allen, C., and Carlyle-Gall, C., syndrome of depression, alopecia, and hyposexuality, III, 393.
- Allen, C. F. H., Bell, A., and Gates, J. W., jun., diene synthesis with β -nitrostyrene, II, 358.
- and Clark, J. H., sodium perborate as a replacement for sodium peroxide in the chemical laboratory, I, 101.
- and Gates, J. W., jun., structures of highly arylated indenes; their behaviour with bromine, II, 35. Structure of bimolecular product formed by action of acidic dehydrating agents on anhydroacetobenzil, II, 36. Action of alkaline reagents on bimolecular product formed by action of acidic dehydrating agents on anhydroacetonebenzil, II, 37. Behaviour of carbonyl bridge compounds with alkaline hydrogen peroxide, II, 67. Indanone ring-closure of unsymmetrical $\beta\beta$ -diarylpropionic acids, II, 196. Apparently anomalous bromination in polypheylindene series, II, 196. Oido-ketones in the indene series, II, 302. Diene synthesis with an isobenzothiophene, II, 335.
- and Pingert, F. P., *o*-terphenyl. II. Derivatives prepared from the hydrocarbon, II, 85.
- and Van Allan, J. A., thermal decomposition of polyarylated carbinols, II, 325.
- and Wilson, C. V., use of ^{15}N as a tracer element in chemical reactions; Fischer indole synthesis, II, 277.
- Allen, C. R., Stutzman, J. W., and Meek, W. J., production of ventricular tachycardia by adrenaline in cyclopropane anaesthesia, III, 762.
- Allen, D. See Swales, W. E.
- Allen, D. E. See Collier, H. B.
- Allen, D. I., assay of vitamin-B₁ in New Zealand materials by thiochrome method, III, 665.
- Allen, E., fundamentals of endocrinology in obstetrics and gynaecology, III, 562.
- Thomas, T. B., Wilson, James G., and Hession, D. A., differential growth in ovaries and genital tract near time of ovulation in rats treated with colchicine, III, 620.
- Allen, E. G. See Gregg, R. O.
- Allen, E. V., Barker, N. W., and Waugh, J. M., dicoumarin and prothrombin time, III, 547.
- See also Fatherree, T. J.
- Allen, F. A., sulphur dioxide in the foundry; industrial hygiene, III, 348.
- Allen, H. E. See Blackford, J. M.
- Allen, H. O. See Butler, L. I.
- Allen, H. S., nature of entropy, I, 130.
- Allen, J. E., chromite in Oregon, I, 291.
- Allen, J. G., clinical experience with water-soluble vitamin-K-like substance (tetrasodium 2-methyl-1:4-naphthaquinol diphosphate), III, 547.
- and Livingstone, H., early postoperative reduction of prothrombin in jaundiced and biliary fistula patient with reference to anaesthesia, III, 865.
- See also Stevenin, T. G.
- Allen, J. H. See Boyd, J. D., and O'Brien, C. S.
- Allen, L., lymphatics of parietal tunica vaginalis propria of man, III, 617.
- See also Cochran, W.
- Allen, M. B. See Norris, T. H., and Ruben, S.
- Allen, R. W. See Farr, M. M.
- Allen, T. H., Otis, A. B., and Bodine, J. H., pH stability of prototyrosinase and tyrosinase, III, 201. Changes in properties of prototyrosinase due to shaking, III, 769.
- Allen, V. T., eocene anauxite clays and sands in coast range of California, I, 324.
- Allen, W. F., results of prefrontal lobectomy on acquired and on acquiring correct conditioned differential responses with auditory, general cutaneous, and optic stimuli, III, 875. Distribution of cortical potentials resulting from insufflation of vapors into nostrils and stimulation of olfactory bulbs and pyriform lobe, III, 875.
- Allen, W. M. See Woolf, R. B.
- Alles, G. A., Blohm, C. L., and Saunders, P. R., tyrosinase and phenolic pressor amines, III, 56.
- Feigen, G. A., and Icke, R. N., analogues of synthetic tetrahydrocannabinol, II, 69.
- and Heegaard, E. V., substrate specificity of amine oxidase, III, 518.
- Shull, M. A., and Wisegarver, B. B., comparative physiological actions of β -4-iminazolylalkylamines, III, 587.
- See also Heegaard, E. V.
- Allende, J. See Crozatto, H.
- Allinson, M. J. C., specific enzymic determination of nicotinic acid in blood, III, 500.
- Allison, A. M., [determination of] 8-hydroxy-quinoline sulphate, II, 148.
- Allison, B. R., sulphapyridine in treatment of pneumonia, III, 195.
- Allison, F. E. See Horner, C. K., and Ludwig, C. A.
- Allison, J. B., Cole, W. H., Leathem, J. H., Nastuk, W. L., and Anderson, J. A., acidosis and decreased urine flow in rabbits during gravity shock, III, 378.
- Allison, P. R. See Stewart, M. J.
- Allison, V. D., control of diseases of cattle inimical to man; mastitis, streptococcal infection, brucellosis, and sterility, III, 849.
- Allmand, A. J. See Woolgar, C. W.
- Allsopp, C. B., water-soluble carcinogen derived from 3:4-benzpyrene, III, 127.
- Allyn, W. E., and Allyn, W. E., jun., urine of newborn following ammoniated mercury rubs, III, 346.
- Allyn, W. E., jun. See Allyn, W. E.
- Almasy, F., ionic concentration gradients and their biochemical significance, III, I, 91.
- Almin, K. E., and Westgren, A., lattice parameters of cubic As_2O_3 and Sb_2O_3 , I, 145.
- Almon, L., significance of vi antigen, III, 607.
- Almond, S., and Logan, R. F. L., carotinæmia, III, 376.
- Almquist, H. J., and Gran, C. R., growth-promoting activity of betaine in the chick, III, 900.
- Grau, C. R., Kratzer, F. H., and Mecchi, E., soya-bean protein as a source of amino-acids for the chick, III, 404.
- and Jukes, T. H., relative ineffectiveness of arsenocholine as methylating agent in chick, III, 336.
- Kratzer, F. H., and Mecchi, E., creatine formation in chicks, III, 579.
- Almy, G. M., and Gillette, P. R., quantum yield of diacetyl fluorescence, I, 192.
- Almy, T. P. See Shorr, E., and Tolstoi, E.
- Alonso, O., Crozatto, R., and Crozatto, H., comparative study of pepsitensin and hypertensin, III, 790.
- See also Crozatto, H., and Salvestrini, H.
- Alpatov, V. V. See Gauze, G. F.
- Alpers, B. J., personality and emotional disorders associated with hypothalamic lesions, III, 101. [Tumour of 4th ventricle associated with meningomyelocele and] absence of cerebellum in 5-week-old infant, III, 466.

- Alpers, B. J., Gaskill, H. S., and Weiss, B. P., primary sciatic neuritis, III, 636.
- Allsever, W. D., paroxysmal auricular tachycardia in infancy and childhood, III, 790.
- Alstead, S., rate of blood-regeneration after haemorrhage, III, 710.
- Alt, H. L. See Feinberg, S. M.
- Alter, [biological] value of synthetic vitamins and hormones, III, 186.
- Alter, C. M., and McCollie, E. S., lead-uranium-thorium ratios of zones of a single crystal of uraninite from Spruce Pine, N. Carolina, I, 211.
- Altergot, V. F., Kuvshinova, O. P., and Baraeva, G. M., is lysis identical with autolysis in fungi? III, 274.
- Alterman, J. See Bullowa, J. G. M.
- Alther, H. B., and Reichstein, T., bile acids and related substances. XX. Attempted preparation of Δ^9 -cholenic acid, II, 236.
- Altland, P. D., annual reproductive cycle of male fence lizard, III, 114.
- Altman, H. S. See Vollmer, Hubert.
- Altmann, A. See Foy, H.
- Altmann, F., and Fowler, E. P., histological findings in Ménière's symptom complex, III, 556.
- Altmann, M., Knowles, E., and Bull, H. D., psychosomatic study of sex cycle in women, III, 114.
- Altschul, R., atrophy, degeneration, and metaplasia in denervated skeletal muscle, III, 465. Lipofuscin distribution in basal ganglia, III, 860.
- and Brown, J. S., parathyroid insufficiency in Wilson's disease, III, 15.
- and Turner, K. P., innervation of interosseous muscles and toe spreading reflex, III, 794.
- Altschule, M. D., and Zamchek, N., circulation and respiration in patient with anasarca following administration of cortin and sodium chloride, III, 23.
- See also Bondy, P. K.
- Altschuler, L. V., and Zukerman, V. A., apparatus for X-ray structure tests and X-ray motion pictures, I, 239.
- Altschuler, S. S., Hensel, H. M., Hecht, P., and Pursley, R., maintenance of nitrogen equilibrium by intravenous amino-acids, III, 414.
- Alvarez, W. C., causes of flatulence, III, 483.
- Alvarez-Tostado, C. See Jameson, E.
- Alvaro, M. E., Latin American developments in prevention of blindness, III, 384. Aspects of Brazilian ophthalmology, III, 728. Effects, other than anti-infectious, of sulphonamide compounds on eye, III, 729.
- Alvis, B. Y., and Toland, V. A., nævus flammeus associated with glaucoma, III, 800.
- Alyea, E. P., and Henderson, A. F., orchidectomy for carcinoma of prostate, III, 659.
- Alyea, H. N., potential energy curves in general chemistry, I, 82.
- Amäl, H. See Duquenois, P.
- Amaldi, E., Bocciarelli, D., Ferretti, B., and Trabacchi, G. C., scattering of 14-mv. neutrons by protons, I, 112.
- Amann, A., and Jarisch, A., release mechanism of Bezold effect, III, 421.
- Amatruada, C. S., pneumoencephalography and developmental diagnosis of behaviour, III, 100.
- Ambrose, A. M., toxicological and pharmacological studies on 3:5-dinitro-o-cresol, III, 422. Physiological effects of sulphanic acid and ammonium sulphamate, III, 836.
- DeEds, F. and Cox, A. J., jun., effect of high-fat diet on chronic toxicity of derris and rotenone, III, 836.
- Griswold, R. A., and Hamilton, J. E., absorption of sulphadiazine after oral and intraperitoneal administration in dogs and after intraperitoneal and local administration in man, III, 507.
- See also Lehmann, G.
- Amdur, I., average H-H₂ repulsive potential from collision cross-section measurements, I, 190.
- American Medical Association, Council on Foods and Nutrition, comparative nutritional value of butter and margarine, III, 405. Sugar, candy, and sweetened carbonated beverages, III, 573.
- Council on Pharmacy and Chemistry, sulphadiazine, III, 135. Aluminium hydroxide preparations, III, 139. Diethylstilboestrol, III, 172. Standardisation of oestrogens, III, 563. Sodium thiosulphate, III, 591.
- Council on Physical Therapy, therapeutic value of ultra-violet radiation, III, 596.
- Council on Rheumatism, arthritis, III, 399.
- Amerine, M. A., and Winkler, A. J., maturity studies with Californian grapes. II. Titratable acidity and organic acid content, III, 539.
- Aminoff, G., crystals to be used in chemical X-ray spectrography, I, 293.
- Amirchanov, A. C. See Pozner, E.
- Amis, E. S., and Jaffé, G., temperature-dependence of reaction rates from standpoint of Bronsted-Christianen-Satchard equation, I, 19.
- and Price, J. B., effect of dielectrics and solvent on regeneration in acid solution of alkali-faded bromophenol-blue, I, 257.
- Ammon, R. See Hartmann, Hermann.
- Amorosa, M., sulphanilamide derivatives of histidine, II, 72.
- Amoroso, E. C. See Folley, S. J.
- Amstein, E. H., spectrographic analysis; photographic aspects of internal standard method. II. Plate calibration, I, 165.
- Amstein, R., effect of bromide on basal metabolic rate in man, III, 138.
- Amstutz, E. D., and Spitzmiller, E. R., condensation of 2-furylactic acid with o-nitrobenzaldehyde, II, 240.
- Amuchastegui, S. R., Orias, O., and Segura, A. S., variations in initial and final complexes of myocardial electrograms according to direction of stimulus propagation, III, 867.
- Anand, B. M., Kalia, P. N., and Ram, M., spectrum of active nitrogen in the Schumann region, I, 271.
- Anantakrishnan, C. P. See Lahiry, N. L.
- Ananthasubrahmanyam, C. K. See Rao, Y. P.
- Anastasievitsch, V., theory of chemical development, I, 95.
- Anchel, M., and Waelsch, H., higher fatty aldehydes. I. Isolation from tissue with acidic carbonyl reagents, III, 126.
- Anderes, E., and Laszcower, M., re-infusion of abdominal cavity blood, III, 712.
- Anderes, K. See Koller, T.
- Andersen, A. A., metabolism of lactic acid bacteria, particularly *Bacillus dextrolacticus*, III, 689.
- Andersen, A. G. H., and Jette, E. R., X-ray methods for ternary systems, I, 16.
- Andersen, H. C., and Kistiakowsky, G. B., activation energy of reaction $\text{CH}_3 + \text{HBr} = \text{CH}_4 + \text{Br}$ and carbon-hydrogen bond strength in methane, I, 159.
- Anderson, A. F., Hain, A. M., and Patterson, J., adrenal carcinoma and its hormone diagnosis, III, 807.
- Anderson, A. K. See Thorp, W. T. S.
- Anderson, A. L., granite and ore, I, 170.
- Anderson, A. W. See Adams, R.
- Anderson, B. G., and Jenkins, J. C., life cycle of *Daphnia magna*, III, 896.
- Anderson, B. W. See Burbage, E. J.
- Anderson, C. A. See Merriam, C. W.
- Anderson, C. E. See Andrews, J. C.
- Anderson, C. M., and Gilbert, E. C., apparent energy of N-N linking as calculated from heats of combustion, I, 63.
- Anderson, E. See Morton, M. E., and Stillman, N.
- Anderson, E. E., and Fellers, C. R., food value of mushrooms (*Agaricus campestris*), III,
- Anderson, E. R., Karabin, J. E., Udesky, H. L., and Seed, L., oral administration of synthetic vitamin-K, III, 903.
- Anderson, G. See Morris, A. C.
- Anderson, G. (Melbourne), and North, E. A., relation of pertussis endotoxin to pertussis immunity in the mouse, III, 605.
- Anderson, G. K. See Lichty, J. A., jun.
- Anderson, G. W., Faith, H. E., Marson, H. W., Winnek, P. S., and Roblin, R. O., jun., chemotherapy. VI. Sulphanilamido-heterocyclic compounds, II, 175.
- See also Breslow, L.
- Anderson, H. D., and Moxon, A. L., blood picture of dog following subcutaneous injections of sodium selenite, III, 515.
- Anderson, J., induction of oestrus in the cow with oestradiol benzoate, III, 172. Clinical significance of pH of bull semen, III, 175.
- Anderson, J. A. See Allison, J. B., and McQuarrie, I.
- Anderson, J. A. A., and Murlin, W. R., antagonism of pitressin and adrenal cortical extract in human diabetes insipidus, III, 113.
- Anderson, J. C. See States, M. N.
- Anderson, J. S., vapour pressure of metallic indium, I, 178.
- and Ridge, M. J., distribution equilibria in the system tin-stannous sulphide, I, 180. System tin-stannous sulphide, I, 181.
- Anderson, L. C., and Johnston, D., quinoidation of triaryl compounds; diphenylbromo-naphthylmethyl chlorides, II, 190.
- and Thomas, D. G., quinoidation of triaryl compounds; diphenylhydroxynaphthylcarbinols, II, 190.
- Anderson, L. G., and Bugg, R. R., use of stilboestrol dipropionate, III, 172.
- Anderson, L. J. [with Hindman, J. C.], versatile continuous-reading thermionic voltmeter, I, 166.
- Anderson, M. See Robinow, M.
- Anderson, N. A., Brown, E. W., and Lyon, R. A., influence of race and sex on duration of gestation and weight at birth, III, 741.
- Anderson, P. L., normal development of *Triturus pyrrhogaster*, III, 707.
- Anderson, R. See Dow, R. S.
- Anderson, R. B., and Rowley, H. H., kinetics of thermal decomposition of n-propyl and isopropyl formates, I, 309.
- Anderson, Robbin C. See Williamson, P. M.
- Anderson, Robert C., Henderson, F. G., and Chen, K. K., rat as suitable animal for study of prolonged medication, III, 913.
- See also Chen, K. K., Failey, R. B., jun., and Harris, P. N.
- Anderson, R. J., chemistry of lipins of tubercle bacillus, III, 923.
- Anderson, R. K., sulphathiazole in advanced acute appendicitis, III, 135. Determination of alcohol in blood, III, 376.
- Anderson, R. S., use of radioactive phosphorus for determining total circulating erythrocyte volumes, III, 712.
- Anderson, S., determination of free and acetylated sulphanilamide, II, 148.
- Anderson, T., chemotherapy of pneumonia, III, 672.
- and McKenzie, P., postvaccinal encephalitis, III, 529.
- Anderson, T. F., and Richards, A. G., jun., electron microscope study of structural colours of insects, III, 331.
- See also Chambers, L. A., Luria, S. E., Morton, H. E., Mudd, S., Plotz, H., Richards, A. G., jun., Stanley, W. M., and Umbreit, W. W.
- Anderson, W., and Smythe, J. A., occurrence of millerite in the Durham coal measures, I, 172.
- Anderson, W. A. D., disease in American negro. I. Melanoma, III, 898.
- See also Danis, P. G., and Werner, A. A.
- Anderson, W. F., motility of fasting stomach, III, 743.
- and Morris, N., effects of atropine, prostigmine, adrenaline, and calcium on movements of fasting human stomach III 582

- Anderson, W. T., jun., mercury arc lamps : effect of electrode on energy distribution, I, 185.
- Anderson, W. W. S., water relations in the sweet potato, III, 534.
- Andersson, E. See under Grimsell, E.
- Andervont, H. B., influence of hybridisation on occurrence of mammary tumours in mice, III, 489.
- Bryan, W. R., and Shimkin, M. B., mammary tumour inciter in mice, III, 401.
- and Edwards, J. E., carcinogenic action of two azo-compounds in mice, III, 488.
- Response of strain A female mice to small amounts of o-aminoazotoluene, III, 488.
- Edwards, J. E., and Grady, H. G., induction of hepatic lesions, hepatomas, pulmonary tumours, and haemangi-endotheliomas in mice with o-aminoazotoluene, III, 250.
- See also Greenstein, J. P., and White, J.
- Andrade, S. O. See Rocha e Silva, M.
- Andreas, F. See Ziegler, K.
- Andreen, J. H. See Snyder, H. R.
- Andrew, N. V. See Andrew, W.
- Andrew, W., and Andrew, N. V., chromatin content of nerve cells, III, 300. Senile involution of thyroid gland, III, 388.
- Brown, H. M., and Johnson, J. B., senile changes in liver of mouse and cat, with reference to similarity of nuclear alterations, III, 620.
- Andrewes, C. H., origin of influenza epidemics, III, 851.
- King, H., and Ende, M. van den, chemotherapeutic experiments with viruses of influenza A, lymphogranuloma venereum, and vaccinia, III, 581.
- and Mills, K. C., psittacosis (ornithosis) virus in English pigeons, III, 777.
- Andrews, A. H. See Carlson, A. J.
- Andrews, D. H. See Ziegler, W. T.
- Andrews, E. R. See Bost, R. W.
- Andrews, F. N. See Bullard, J. F., Shaffner, C. S., and Tyrrell, W. P.
- Andrews, G. B., Groat, W. A., Wood, A. V., and Jones, M. L., globin-insulin, III, 169.
- Andrews, H. L., brain potentials and morphine addiction, III, 99. Effect of morphine and prostigmine methosulphate on measurements of pain threshold, III, 320.
- Oberst, F. W., and Williams, E. G., damping device for high-capacity balances, I, 139.
- See also Himmelsbach, C. K.
- Andrews, J. C., and Anderson, C. E., absorption of quinine sulphate and quinine dihydrochloride from isolated intestinal loops of dogs, III, 910.
- and Andrews, K. C. hereditary aspects of cystinuria, III, 543.
- Andrews, J. S., and Gonzales, J. O., determination of blood in human faeces, III, 125.
- Andrews, J. T. See Scott, A. W.
- Andrews, K. C. See Andrews, J. C.
- Androp, S., Ratcliffe, H. E., and Katzenelbogen, S., urinary elimination of phenolsulphon-phthalain injected into cerebrospinal cavity in schizophrenia and general paresis, III, 874.
- Andrus, W. de W., Lord, J. W., jun., and Moore, R. A., effect of hepatectomy on plasma-prothrombin and utilisation of vitamin-K, III, 303.
- Lord, J. W., jun., and Stefko, P., comparative effects of gastroenterostomy and pedicle jejunal graft on pH of gastric mucosa, III, 813. Comparative effects of pedicle grafts from different levels of intestinal tract on pH of gastric mucosa, III, 813.
- Nickel, W. F., and Schmelkes, F. C., treatment of burns with chemotherapeutic membranes, III, 340.
- See also Lord, J. W., jun., and Stefko, P.
- Anfinsen, C. B., Lowry, O. H., and Hastings, A. B., application of freezing-drying technique to retinal histochemistry, III, 802.
- Angelescu, E., relations between electrical conductivity and degree of dispersion of lyophilic colloids. I, I, 305.
- Angelescu, E., and Giusca, R., compounds of aromatic amines with lower fatty acids, I, 88.
- and Woinarsky, A., relations between electrical conductivity and degree of dispersion of lyophilic colloids. II. Conductivity of sodium and potassium palmitate and stearate solutions in presence of o-cresol. IV. Electrical conductivity of solutions of sodium oleate in presence of the isomeric cresols, I, 277, 305.
- Angello, S. J., Hall effect and conductivity of cuprous oxide, I, 54.
- Angenetter, H., Zeeman effect in xenon spark spectrum, Xe II. I, I, 213.
- Angevine, D. M., and Furth, J., fatal disease of middle-aged mice characterised by myocarditis associated with haemorrhage in pleural cavity, III, 458.
- See also Rothbard, S. R.
- Angle, F. E., Algie, W. H., and Morgan, D., brucellosis : strain variation in serologic testing, III, 62.
- Angrist, A. See Mitchell, N.
- Angus, W. R., and Hill, W. K., magnetochemical investigations. I. Introduction and experimental technique. II. Diamagnetic susceptibility of CH_2 group. III. Diamagnetic susceptibility of isomerides, I, 253.
- and Owen, R. P., aqueous solubilities of *r*- and *l*-mandelic acids and three *O*-acyl-*r*-mandelic acids, I, 198. Effect of heat on mandelic acid, II, 229. Stability of racemates ; mandelic acid and its derivatives, II, 229.
- Annegers, J. H., Snapp, F. E., Atkinson, A. J., and Ivy, A. C., variations in susceptibility to cinchophen as observed in animals with bile fistulae, III, 836.
- See also Ivy, A. C.
- Anner, G. See Ruzicka, L.
- Ansbacher, F. See Ehrenberg, W.
- Ansbacher, S. See Martin, G. J.
- Anson, B. J., and Cauldwell, E. W., developmental anatomy of human stapes, III, 387. Stapes, fissula antefenestram, and associated structures in man. IV. From fetuses 75–150 mm. in length, III, 642.
- Morgan, E. H., and McVay, C. B., anatomy of region of inguinal hernia ; fundamental structure of inguinal and scrotal layers, demonstrated in cases of indirect inguinal hernia, III, 153.
- See also Beaton, L. E., Bishop, W. E., Cauldwell, E. W., and Curtis, A. H.
- Anson, R. J. See Carr, B. W.
- Anthes, H. I. See McElvain, S. M.
- Anthony, E. K. See Sharpless, G. R.
- Antik, L. V. See Berkenheim, A. M.
- Antonoff, G., definition of surface tension, I, 303.
- Antonov-Romanovski, V., luminescence in phosphors, I, 114.
- Antopol, W., and Unna, K., effect of riboflavin on liver changes produced in rats by *p*-dimethylaminoazobenzene, III, 402.
- See also Schifrin, A.
- Antropov, L., polarisation in ionic oxidation-reduction processes. I, I, 155.
- and Mizgareva, E., polarisation in ionic oxidation-reduction processes. II, I, 155.
- Antunes, M. T., energy values of $3d^24p$ electronic configuration of cobalt, I, 45.
- Anwyl-Davies, T., post-arsenical jaundice and dermatitis, III, 835.
- Anzilotti, W. F., and Curran, B. C., electric moments of *o*-substituted phenols and anisoles. I. Halogen derivatives, I, 193.
- Aoki, M. See Asahina, Y.
- Apitz, K., leukemic lympho-reticulosis, III, 228.
- Appanna, T. C., and Devadatta, S. C., nutritive value of fish and prawn muscle, III, 186.
- Appel, H., Berger, G., Bohm, H., Keil, W., and Schiller, G., fats containing fatty acids with odd numbers of carbon atoms. II., III, 46.
- Bohm, H., Keil, W., and Schiller, G., fats containing fatty acids with odd numbers of carbon atoms. IV., III, 131.
- Appel, M., Saphir, O., Janota, M., and Strauss, A. A., complement-fixing antibodies (Brown-Pearce carcinoma) in blood serum and in aqueous fluid of anterior chamber of eye, III, 183.
- Appel, W. See Ackermann, D.
- Appelbaum, E., and Kalkstein, M., periarteritis nodosa, III, 162.
- Appenzeller, R. See Karrer, P.
- Apple, C., and Bronstein, I. P., ocular findings in childhood endocrinopathies, III, 473.
- Appleby, W. G., and Avery, W. H., improved meter for measurement of gas flow rates, I, 240.
- Appleman, D., and Richards, A. V., variability of sugar-acid ratio and total nitrogen in Valencia oranges, III, 700.
- Appling, J. W. See Shema, B. F., and Tanner, F. W.
- Apter, N. See Rabiner, A. M.
- Araujo, T. L., enzymic action of ascorbic acid, III, 667.
- Arbesman, C. E., Witebsky, E., and Osgood, H., results of intradermal skin tests with trichina antigen in allergic and normal individuals, III, 289.
- Arbor, A. See Pollard, H. M.
- Arbusov, A. E. See Grechkin, N. P.
- Archambault, J., and McCrady, M. H., dissolved air as source of error in fermentation tube results, III, 67.
- Archbold, J. W., condensation in the form of clouds and dew, I, 304.
- Archer, C. J., starch cycle in the Hachiya persimmon, III, 613.
- Archer, G. F., histopathology of old anastomotic wounds of gastrointestinal tract, III, 396.
- Archer, H. E., Kriss, M., and Voris, Le R., periodic administration of anterior pituitary extract as affecting metabolism of rats on diets of different composition, III, 503.
- Archer, S. See Kharasch, M. S.
- Archibald, R. M., and Hamilton, P. B., removal of canavanine from jack bean urease, III, 915.
- See also Beckman, W. M.
- Archibald, W. J., integration of differential equation of the ultracentrifuge, I, 72.
- Arcus, C. L., and Maclean, I. S., structure of arachidonic and linoleic acids, II, 152.
- Ardenne, M. von, [optical] definition of objects lying near limits of resolution of microscope and electron microscope, I, 138. Supermicroscopy with a reaction chamber, using the universal electron microscope, I, 210. Occurrence of black lines in electron-microscopic images of crystalline lamellæ, I, 221. Vibrating slide as an aid to electron-microscopy and microscopy, I, 287.
- and Beischer, D., investigation of fine structure of macromolecular substances with the electron microscope. I. Structure of β -polyoxymethylene crystals, I, 33.
- Gunther, F., and Schiebold, E., electron diffraction at small aperture in universal electron microscope (method and results), I, 102.
- Ardis, A. E., Buck, J. S., and Baltzly, R., *N*-aralkylbarbituric acids, II, 106.
- See also Ferry, C. W.
- Arellano, E. R., vestibular kinetovisual function and kinetic vision, III, 20.
- Arena, J. M., acetarsone in treatment of congenital syphilis, III, 590.
- Arenas, N., and Sammartino, R., partial ovariectomy in bitches, III, 810.
- See also Sammartino, R.
- Arendt, J. See Willis, D. A.
- Arey, J. B., hyaline changes in islands of Langerhans in diabetes mellitus, III, 806.
- Arey, L. B., regeneration of lingual papillæ and taste buds after cautery, III, 168.
- and Covode, W. M., repair in epithelial wounds of cornea, III, 708.
- and Gore, M., numerical relations between ganglion cells of retina and fibres in optic nerves of dog, III, 317.

- Arey, L. B.**, and **Monzingo, F. L.**, can hypoglossal nerve fibres induce formation of taste buds ?, III, 97.
See also **Bruesch, S. R.**
- Argetsinger, H. L.** See **Sharpless, G. R.**
- Arhimo, A. A.** See **Virtanen, A. I.**
- Arieff, A. J.** See **Finkelman, I., Mallach, J. F.**, and **Pollock, L. J.**
- Aries, L. J.**, nylon as buried suture, III, 855.
See also **Davison, M.**
- Aring, C. D.**, and **Frohring, W. O.**, apparatus and technique for measurement of vibratory threshold and of vibratory "adaptation" curve, III, 233.
- Ariyama, K.**, superconductivity, I, 56.
- Armanquie, M.**, conservation of vi antigen of dead typhoid bacilli and of vi type anti-typhoid serum, III, 607.
- Armbruster, M. H.**, adsorption of gases at low temperature and pressure on smooth silver, I, 59. Solubility of hydrogen at low pressures in iron, nickel, and steels, I, 255.
- Armentano, L.**, effect of various ions on catalytic oxidation of ascorbic acid, III, 667.
- Armentrout, J. M.** See **Osgood, E. E.**
- Armi, E. L.**, electrical conduction and recrystallisation in thin lead films deposited at low temperatures, I, 252.
- Armitage, F. D.**, manipulation of the microscope. I-III, 318. Uses for chlorazol-black E and stain for botanical sections, III, 785.
- Armour, J. C.** See **Babkin, B. P.**, and **Coloviras, G. J., jun.**
- Armstrong, E. V.**, and **Deischer, C. K.**, Johann Rudolf Glauber, 1604-70, his chemical and human philosophy, I, 104.
- Armstrong, F. H.** See **Hayes, F. R.**
- Armstrong, J. G.** See **McGuinness, A. C.**
- Armstrong, M. D.** See **Kilmer, G. W.**
- Armstrong, P. B.**, cholinesterase in amphibian sphincter pupillæ, III, 17.
- Armstrong, W.** See **Breiter, H.**
- Armstrong, W. D.**, and **Knutson, J. W.**, effect of quinones on acid formation in saliva, III, 891.
- Armstrong, W. E.** See **Swanson, P. P.**
- Arnason, T. J.**, female sterility in potatoes, III, 532.
- Arndt, F.**, **Avan, S.**, and **Loewe, L.**, improved preparation of nitrosomethylcarbamide, II, 254.
and **Eistert, B.**, proton mobility and influence of substituents, especially carbonyl and sulphonyl, II, 349.
- Loewe, L.**, and **Ozansoy, M.**, enol ether-acetal equilibrium in the ethyl acetoacetate series, II, 292.
- Arnett, J. H.**, medication by chewing sulphadiazine and other drugs incorporated in paraffin base, III, 585.
- Spink, W. W.**, **Boynton, R.**, and **Agnew, S.**, concentrations of sulphadiazine in human saliva attained by chewing paraffin containing sulphadiazine, III, 759.
- Arnett, V.**, **Kessler, M.**, and **Gellhorn, E.**, role of adrenal cortex in preventing hypoglycaemic convulsions, III, 884.
- Arnheim, E. E.**, retroperitoneal teratoid tumours [in infancy and childhood], III, 899.
See also **Hurwitt, E. S.**
- Arnold, A.**, **Lipius, S. T.**, and **Green, D. J.**, riboflavin determination by microbiological method, III, 189.
- Arnold, E. A.**, and **Fray, A. R.**, colorimetric determination of sodium, I, 235.
- Arnold, H.** See **Wagner-Jauregg, T.**
- Arnold, H. L., jun.** See **Tilden, I. L.**
- Arnold, L.**, physico-chemical conditions of skin and bacterial growth, III, 847.
- Arnold, L. J.** See **Lorenz, A. J.**
- Arnold, R. T.**, and **Bordwell, F.**, veratrole and methylenedioxybenzene series, II, 133.
and **Liggett, R. W.**, mechanism of reaction between hindered carbonyl compounds and the Grignard reagent. II, II, 132.
- and **Moran, J.**, coumaran series, II, 169.
See also **Huggett, C.**
- Arnow, L. E.**, **Kazal, L. A.**, and **De Falco, R. J.**, preparation of apparently non-antigenic beef serum-protein by treatment with alkali, III, 69.
See also **Kazal, L. A.**, and **Opsahl, (Miss) J. C.**
- Arnsson, I. J.**, pus [with iatrein] in treatment of pyogenic disorders, III, 289.
- Aron, E.** See **Cardon, L.**
- Aronberg, L. M.** See **Sobin, S. S.**
- Aronoff, S.**, and **Calvin, M.**, porphyrin-like products of reaction of pyrrole with benzaldehyde, II, 343.
and **Mackinney, G.**, photo-oxidation of chlorophyll, I, 206.
- Aronson, H. G.**, pancreodochocholecystostomy and experimental production of gallstones, III, 179.
- Aronson, W.** See **Wiener, A. S.**
- Arrigoni, L.**, and **Fischer, Louis**, salmon protein as source of histidine, arginine, lysine, cystine, tyrosine, and tryptophan, II, 346. Relation of pH and osmotic pressure to ophthalmic solutions, III, 469.
- Artmann, K.**, theory of anomalous reflexion of atomic rays at crystal surface layers. I. II. Calculation of form of trough for discontinuous potential curves. III. Transition to continuous potential curve. IV. Consideration of energy exchange between lattice and particles, I, 54, 55, 222. Anomalous reflexion at optical line gratings, I, 219.
- Artom, C.**, and **Fishman, W. H.**, relation of diet to composition of tissue phospholipins. I-III, III, 662.
and **Swanson, M.**, action of bromo-substituted fatty acids on liver fat, III, 670.
See also **Fishman, W. H.**
- Artzichovskaja, E. V.** See **Rubin, B. A.**
- Arvanitaki, A.**, effects evoked in an axon by activity of a contiguous one, III, 13.
- Arx, W. S. von**, crystal structure of pond ice observed with polaroid spectacles, I, 147. Grating spectrograph for use in qualitative analysis, I, 185.
- Asahina, T.** See **Shinomiya, C.**
- Asahina, Y.**, **Aoki, M.**, and **Fuzikawa, F.**, lichen substances. XCVI. New depside "hypothamnolide acid," II, 367.
and **Sano, T.**, ω -benzoylcamphepane, II, 307.
and **Yoshioka, I.**, lichen substances. XCV. Zeorin group. II, II, 314.
- Asai, T.** See **Sakaguchi, K.**
- Asbeck, W. K.** See **Wachholz, F.**
- Asbury, M. K.**, and **Vail, D.**, multiple primary malignant neoplasms, III, 803.
- Aschaffenburg, R.**, determination of osmotic pressure of biological fluids, III, 363.
- Ascher, K. W.**, aqueous veins, III, 103, 311.
- Aschermann, G.**, and **Justi, E.**, electrical conductivity, increase of resistance in a magnetic field, Hall effect, and superconductivity of rhenum, I, 8.
- Aschner, M.** See **Hestrin, S.**
- Ascroft, P. B.**, blast injury of lungs and brain, III, 746.
- Asenjo, C. F.**, and **De Fernandez, M. del C. C.**, protease ["pinguinain"] from *Bromella pinguin*, L, III, 427.
- Ashbel, R.**, strains of *Spirochæta persica* in Palestine, III, 357.
See also **Adler, S.**
- Ashburn, F. S.** See **Bargen, J. A.**
- Ashburn, L. L.**, **Daft, F. S.**, **Endicott, K. M.**, and **Sebrell, W. H.**, lesions in rats receiving sulphaguanidine, III, 342.
and **Emmons, C. W.**, spontaneous coccidioidal granuloma in lungs of wild rodents, III, 204.
See also **Daft, F. S.**, **Lowry, J. V.**, and **Spicer, S. S.**
- Ashe, W. F.**, industrial lead poisoning as clinical syndrome, III, 913.
- Asher, L.**, lacarnol, padutin, and adenosine-phosphoric acid [dilate blood vessels and] raise temperature in rabbit's muscle, III, 631.
[with **Lickermann, N.**, and **Spirig, M.**] thermo-electric investigation of diffusion through membranes, III, 838.
- Asher, L.**, and **Scheinfinkel, N.**, heat production in frog's muscle on sympathetic stimulation, III, 634. Reversal of action of autonomic drugs, III, 909.
- Asher, R.** See **Katz, L. N.**
- Ashley, F. L.** See **Bishop, W. E.**
- Ashton, G. C.** See **Swales, W. E.**
- Ashton, W. M.** See **Adams, S. H.**
- Ashworth, C. T.**, and **Kregel, L. A.**, changes in body-water partition and extracellular electrolytes in shock, III, 11.
See also **Muirhead, E. E.**
- Asinger, F.**, double linking isomerisation in preparation of straight-chained aliphatic olefines of higher mol. wt., II, 117. Isomerising action of anhydrous magnesium bromide on complex olefines with terminal double linking [cetene = Δ^2 -hexadecene], II, 117.
- Asker, W.** See **Schonberg, A.**
- Asmundson, V. S.** See **Bird, F. H.**
- Asmus, E.**, mobility of ferrocyanide ion in aqueous solution at infinite dilution, I, 229.
- Asmussen, E.**, **Christensen, E. H.**, and **Nielsen, M.**, regulation of circulation in different postures, III, 460.
- Assmann, J.** See **Scheibe, G.**
- Astanovitzkaja, S. N.** See **Mazel, V. A.**
- Astle, M. J.**, and **McConnell, W. V.**, polarographic investigations of hydrogen bonding. I. o- and p-Nitrophenols, I, 155.
See also **Bachman, G. B.**
- Aston, J. G.**, **Fink, H. L.**, and **Schumann, S. C.**, heat capacity and entropy, heats of transition, fusion, and vaporisation, and v.p. of cyclopentane; evidence for a non-planar structure, I, 197.
- Fink, H. L.**, and **Szasz, G. J.**, heat capacity and entropy, heats of transition, fusion, and vaporisation, and vapour pressure of cyclohexane; vibrational frequencies of alicyclic ring systems, I, 253.
- Astwood, E. B.**, chemical nature of compounds that inhibit function of thyroid gland, III, 806.
See also **Dempsey, E. W.**
- Asundi, R. K.**, **Singh, N. L.**, and **Mishra, J. P.**, continuous emission bands in spectrum of carbon tetrachloride, I, 295.
- Auszdi, Z.**, carbohydrate tolerance of hypophysectomised dogs, III, 671.
- Afanosoff, J. V.** See **Kammer, E. W.**
- Atherton, D.**, and **Hilditch, T. P.**, stereochemical relationships of θ_1 -oxidostearic acids and θ_2 -dihydroxystearic acids, II, 217.
- Atkin, L.**, **Frey, C. N.**, and **Schultz, A. S.**, measurement of yeast growth in bios and vitamin investigations, III, 520.
- Frey, C. N.**, **Schultz, A. S.**, and **Williams, W. L.**, differentiation of nicotinic acid and nicotinamide in the microbiological assay procedure, II, 288. Yeast microbiological methods for determination of vitamins; pyridoxine, III, 335.
- Atkins, W. R. G.**, vitamin-C saturation test of Harris and Abbasy, III, 335. Vitamin-C saturation test, III, 502.
- Atkinson, A. J.** See **Annegers, J. H.**, **Berman, A. L.**, and **Ivy, A. C.**
- Atkinson, E. B.**, slide shaker for Kline and blood matching test, III, 447.
- Atkinson, E. R.**, chemical philosophy of Thomas Sterry Hunt, I, 288.
- Holm-Hansen, D.**, **Nevera, A. D.**, and **Marino, S. A.**, symmetrical diaryls from diazotised amines. II, II, 194.
- Atkinson, M.**, histamine in Ménière's syndrome, III, 236. Dizzy patient, III, 388. Diagnosis and treatment of Ménière's syndrome, III, 388.
- Atkinson, N.**, antibacterial substances produced by moulds. I. Penicidin, product of growth of a penicillium. II. Antibacterial substances produced by some common *Penicillia*. III. Detection and estimation of antibacterial activity *in vitro*, III, 275, 600, 846. Antibacterial substances produced by microorganisms, with special reference to those produced by moulds, III, 916.

- Atkinson, W. S., coloured reflex from anterior capsule of lens occurring in mercurialism, III, 801.
- Atlas, D. H., Cardon, L., and Bunata, J., use of Kagan falling drop proteinometer, III, 626.
See also Cardon, L.
- Attlee, Z. J. See Brackney, H.
- Attiah, M. A. H., vitamin therapy in eye diseases, III, 468. Juvenile glaucoma and retinitis pigmentosa, III, 470.
and El-Gammal, Y., Laurence-Moon-Biedl syndrome, III, 471.
- Au, M. H. See Hambre, C. J.
- Aub, J. C. See Moore, F. D., and Nathanson, I. T.
- Audrieth, L. F., Hill, O. F., and Scott, L. D., catalytic effect of electrolytes on solvolysis reactions, I, 39.
and Moeller, T., acid-base relationships at higher temperatures, I, 257.
See also Schirmer, F. B., jun., and Steinman, R.
- Audubert, R., and Quintin, (Mme) M., theory of electrolytic reduction, I, 93.
- Auerbach, M. E., germicidal quaternary ammonium salts in dilute solution; colorimetric assay method, III, 846.
- Auger, P. V., Maze, R., and Chaminade, R., evaluation of lifetime of the meson, I, 48.
- Augerman, I. See Le Winn, E. B.
- Augustin, H. See Schmidt-Thome, J.
- Auhagen, E., *p*-aminophenyl ketones as antagonists of *p*-aminobenzoic acid, III, 60.
- Aulin-Erdtman, G., and Erdtman, H., phenolic constituents of pine heart-wood; synthesis of pinosylvin dimethyl ether [3:5-dimethoxy-stilbene], II, 299.
- Aumann, K. W. See Youmans, W. B.
- Austin, G. J., improved manganese separation for the phosphate method and for general use, I, 316.
- Austin, V. T., acetanilide and amidopyrine poisoning, III, 592.
- Avan, S. See Arndt, F.
- Averbuck, S. H., marked hyperthyroidism as cause of heart disease, III, 91.
- Averell, P. R. See Chapman, R. P.
- Averill, C. V., economic geology of California and Southern Oregon, I, 292.
- Averill, R. See Toomey, J. A.
- Avery, W. H. See Appleby, W. G.
- Avineri-Shapiro, S. See Hestrin, S.
- Avogadro, A. C. See Pasqualini, R. Q.
- Awbery, J. H., recent developments in hygrometry, I, 321.
- Axelrod, A. E., Bosse, M. D., Gross, P., and Swingle, K. F., treatment of leucopenia and granulopenia in rats receiving sulphaguanidine in purified diets, III, 760.
- Elvehjem, C. A., and Swingle, K. F., succinoxidase system of rat liver in riboflavin deficiency, III, 55.
See also Pilgrim, F. J., Potter, R. L., Swingle, K. F., and Teply, L. J.
- Axelrod, B. See Balls, A. K.
- Axilrod, B. M., and Teller, E., interaction of van der Waals type between three atoms, I, 230.
- Artmayer, J. H. See Krakower, C.
- Aycock, W. L., immunity to poliomyelitis; heterologous strains and discrepant neutralisation tests, III, 68. Infectious period of poliomyelitis and virus detection, III, 529.
- Ayling, E. E., Gorvin, J. H., and Hinkel, L. E., *p*-aminodimethylaniline. II. *o*-Chloro- and nitro-derivatives, II, 58.
- Ayling, W. E., value of tuberculin skin tests [in school programme], III, 214.
- Ayo, C., and Meyer, Karl, protein content of rabbit's aqueous humour following intravenous injection of *E. coli* toxin, III, 640.
- Ayres, E. B., and Hauser, C. R., rearrangement of 1:1:3:3:5:5-hexamethylcyclohexane-2:4:6-triol to hexamethylbenzene, II, 85. Course of reaction in the transformation of *aa*-dibromoacetophenone into mandelic acid by aqueous alkali, II, 300.
- Ayres, V. L., struvite in canned lobster, III, 38.
- Azzam, R. C. See Zaki, A.
- B.
- Baade, W., crab nebula, I, 110.
- Baar, H. S., and Lloyd, T. W., regeneration rate of haemoglobin and life span of erythrocytes in normal and pathological conditions, III, 455.
- Babaeva, A. V., Belova, V. I., and Borovik, S. A., spectral analysis of small amounts of iridium and rhodium in platinum preparations, I, 317.
- Babalova, A. A. See Sabinina, L. E.
- Babbitt, J. D., adsorption of water vapour by cellulose, I, 35.
- Babel, J., effect of 2-1'-naphthylmethylinazoline hydrochloride on eye, III, 674.
- Babkin, B. P., Armour, J. C., and Webster, D. R., restoration of functional capacity of stomach deprived of its main arterial blood supply, III, 327.
- Dworkin, S., Rosenberg, G. M., and Schachter, M., *in-vitro* conservation of acetylcholine in whole blood, III, 585.
- Babkin, M. P., determination of hydrogen sulphide by titration with potassium dichromate, I, 235.
- Babson, R. D. See Cromwell, N. H.
- Bach, S. J. See Krebs, H. A.
- Bacharach, A. L., Cruickshank, E. M., Henry, K. M., Kon, S. K., Lovorn, J. A., Moore, T., and Morton, R. A., herring as source of vitamins-A and -D, III, 498.
See also Robinson, F. A.
- Bachman, C. H., and Bensin, I. B., tyre valve in vacuum application, I, 210.
and Ramo, S., electron microscope, I, 102. Electrostatic electron microscopy. I, I, 166.
- Bachman, G. B., and Astle, M. J., dropping mercury electrode in acetic acid. II. Electrocapillary curves and theory of maxima, I, 18.
- and Hoaglin, R. I., attempted synthesis of a cyclooctatetraene; *cis-trans*-isomerism of substituted di- and tri-phenylbutadienes, II, 357.
See also Brown, R. F.
- Bachmann, P. See Georg, A., and Naves, Y. R.
- Bachman, W. E., and Cortes, G. D., phenanthrene derivatives. XI. Acetylation and succinylation of 3-methylphenanthrene, II, 329.
- Hoffman, R., and Whitehead, F., rates of dissociation of penta-arylethanes, II, 360.
- Bachrach, W. H., and Fogelson, S. J., choledochojejunostomy, III, 328.
- Bachrak, E. A. See Schischkin, N.
- Back, S. J., and Williamson, S., formation of urea in mammalian body without participation of arginase, III, 45.
- Backeberg, O. G., and Marais, J. L. C., quinoline derivatives of sulphanilamide, II, 71. 5-Acetamidosaccharin, a derivative of sulphanilamide, II, 128.
- Backer, H. J., and Strating, J., a monomeric aldehyde peroxide (isocarboxylic acid), II, 216.
- Bacon, J. D. S., and Jenkins, G. N., estimation of pantothenic acid with rats, in which wheat germ is included in the basal diet, III, 901.
- Bacon, L., practical application of crossed prisms, III, 730.
- Bacon, R. F., and Fanelli, R., viscosity of sulphur, I, 197.
- Baddeley, G., Fries rearrangement and subsequent isomerisation, II, 264.
- Baddiley, J., Lythgoe, B., McNeil, D., and Todd, A. R., synthesis of purine nucleosides. I. Model experiments on synthesis of 9-alkylpurines, II, 341.
- Lythgoe, B., and Todd, A. R., synthesis of purine nucleosides. II. Synthesis of adenine, II, 341.
- Bade, H. See Rienacker, G.
- Badeewa, T. S. See Schischkin, N.
- Badger, A. E., Johnson, H. C., and Krahenbuehl, J. O., structure of sodium borate glasses as affected by temperature, I, 216.
- Badger, G. M., Cook, J. W., Hewett, C. L., Kennaway, E. L., Kennaway, N. M. and Martin, R. H., production of cancer by pure hydrocarbons. VI, III, 126.
- Badilla, M., Crozatto, H., and Huidobro, F., vagal hypotension, III, 10.
- Badir, G., dystrophy of corneal epithelium, III, 469. Case of right and left glioma retinae, III, 641.
- Badoche, M. See Delépine, M.
- Backlund, B. See Ramberg, L.
- Baer, A. J., vitamins in ophthalmology, III, 468.
- Baer, E., biological acylations. I. Formation of acetylcholine, III, 262.
- Cushing, I. B., and Fischer, H. O. L., synthesis of optically active β -phosphatidic acids, II, 350.
and Fischer, H. O. L., synthesis of dimethyl ethers of two enantiomorphic α -butyrins and their hydrolysis by lipases, II, 1. Dimeric glyceraldehyde γ -diphosphate, II, 353. Synthesis of *dl*-glyceraldehyde γ -phosphate, II, 353.
See also Simonson, E.
- Baer, R. L. See Bereston, E. S.
- Baer, S. See Goldburgh, H. L.
- Baer, W. H. See Saphir, W.
- Baethke, D. See Pohl, J. F.
- Bagdasarian, C. S., absolute rate of heterogeneous reactions, I, 65.
- Bagdasarov, A., blood transfusion in U.S.S.R., III, 369.
- Bagge, E., fission of deuteron by fast neutrons, I, 3.
- Bahl, R. K., Singh, S., and Bali, N. K., periodates of zirconium, I, 282.
- Bahler, G. P. See Lampen, J. O.
- Bahlke, A. M. See Rogers, E. S.
- Bahrmann, S., septic tonsillitis caused by anaerobic organisms, III, 280.
- Baier, J. C., jun., null-reading photo-electric micro-densitometer for use in turbidimetry and abridged spectro-photometry, I, 165.
- Baier, W. E., and Manchester, T. C., substitute for bacteriological agar, III, 846.
- Bailor, J. C., jun. See Rollinson, C. L.
- Bailey, A., volatile hydrogenation derivatives of lignin, II, 346.
- Bailey, A. J., mercury-balance pressure regulator, I, 240.
- Bailey, B., Koran, P., and Bradley, H. C., autolysis of fish muscle, III, 723.
- Bailey, B. E., chart of nutritive values of British Columbia fishery products, III, 252. Nutritive value of flesh of red and white spring salmon, III, 574. Value of bones of canned salmon in prevention and cure of rickets, III, 578.
- Bailey, C. C., insulin in severe diabetic coma, III, 882.
and Marble, A., long-acting insulins, III, 111.
- Bailey, C. H., Ross Aiken Gortner, 1885—1942, I, 187.
- Bailey, C. P. See Fischer, C. C.
- Bailey, C. V. See Boyer, P. K.
- Bailey, E. A., jun. See Satterfield, G. H.
- Bailey, E. H. See Woodford, A. O.
- Bailey, G. F. See Dutton, H. J.
- Bailey, G. H., and Gardner, R. E., anaphylacticogenic properties of normal and virus-infected brains, with reference to neurokeratin, III, 148.
- Bailey, K., Chibnall, A. C., Rees, M. W., and Williams, E. F., Foreman method for determination of dicarboxylic acids in protein hydrolysates, II, 404.
- Bailey, K. C., amphetamine sulphate and electrical convulsions, III, 383.
- Bailey, M. I., and Thomas, A. W., thiamin and riboflavin contents of citrus fruits, III, 409.

- Bailey, O. T., and Hawn, C. v. Z., morphologic changes in normal rabbits induced by intravenous injection of crystallised bovine serum-albumin, III, 714.
See also Weiss, S.
- Bailey, P., [unusual cerebellar tumour and] cerebellar function, III, 466.
- Bonin, G. von, Garol, H. W., and McCulloch, W. S., long association fibres in cerebral hemispheres of monkey and chimpanzee, III, 796. Functional organisation of temporal lobe of monkey (*Macaca mulatta*) and chimpanzee (*Pan satyrus*), III, 796.
- and Davis, E. W., syndrome of "obstinate progression" in cat, III, 308. Effects of lesions of periaqueductal grey matter in cat, III, 308.
- Bailey, P. S. See Lutz, R. E.
- Bailey, W., chest X-ray examinations of large groups. I. With standard size films. II. With 4×10 in. film, III, 162.
- Bailie, J. C. See Gilman, H.
- Bain, G. W., granitisation in western New England, I, 292.
- Bainbridge, J. M. See Marsden, R. J. B.
- Bair, R. K., and Suter, C. M., identification of alcohols and alkyl hydrogen sulphates with *S*-benzylthiuronium chloride, II, 51.
- Baird, E., and Laurie, A., effect of environmental factors and cultural practices on bud initiation, bud abscission, and bud development of the gardenia, III, 533.
- Baird, K. H., and Fox, M., severe sublingual and paratracheal haemorrhage in haemophilia with recovery following tracheotomy, III, 713.
- Baisden, L., and Yegian, D., destruction of acid-fastness of tubercle bacillus by autolytic process, III, 608.
- Bakarian, P. W., preferred orientation in rolled magnesium and magnesium alloys, I, 225.
- Baker, A. B., metastatic tumours of nervous system, III, 129. Medullary involvement in tetanus, III, 872.
See also Cowan, D. W., and Layne, J. A.
- Baker, B. A., and Fenner, F., agranulocytosis following sulphapyridine therapy, III, 907.
- Baker, B. R., and Carlson, G. H., water-soluble compounds with antihæmorrhagic activity, II, 88.
- Baker, D., and Nelson, J. M., tyrosinase and plant respiration, III, 444. Non-oxidase nature of kidney "laccase," III, 597.
- Baker, E. A., Sprague, H. B., and White, P. D., clinical significance of loud aortic and apical systolic heart murmurs without diastolic murmurs, III, 867.
- Baker, E. E., and Smith, C. E., utilisation of carbon and nitrogen compounds by *Coccidioides immitis* (Rixford and Gilchrist, 1896), III, 62.
See also Hassid, W. Z.
- Baker, Edwin M. See Beebe, A. H., jun.
- Baker, Elton M., and Gilbert, E. C., kinetics of transformation of hydrazine cyanate into semicarbazide, I, 156.
- Baker, F., microbial factors in digestive assimilation of starch and cellulose in herbivora, III, 61.
- and Enticknap, J., phagocytosis in appendix of rabbit, III, 744.
- and Martin, R., microbiology of cæcum of the horse, III, 209.
- Baker, G., sand stalagmites, I, 169.
- and Forster, H. C., specific gravity relationships of australites, I, 241.
- Baker, G. E., [treatment of] Rocky Mountain spotted fever [with arsenicals], III, 268.
- Baker, H. G., red colouring matter from green leaves of spinach beet, III, 151.
- Baker, J. A., virus obtained from pneumonia of cats and its possible relation to cause of atypical pneumonia in man, III, 610.
- and Ferguson, M. S., growth of *Platypoecilus maculatus* free from micro-organisms, III,
- Baker, J. R., tube-length in photomicrography, I, 186. Free border of intestinal epithelial cells of vertebrates, III, 157. Curdled milk for supporting tissues in celloidin embedding, III, 785.
- Baker, J. W., energy-level treatment of reaction data, I, 38.
- Baker, L. A., periarteritis nodosa, III, 230.
- Baker, R. See McDermott, W.
- Baker, R. J., Ramberg, E. G., and Hillier, J., photographic action of electrons in the range 40–212 kv., I, 184.
- Baker, R. S. W., Lederle's pertussis antigen in treatment of whooping cough, III, 604.
- Baker, W., structure of "diphenylene," II, 58.
- Grice, K. D., and Jansen, A. B. A., synthesis of α -acyltetronic acids, II, 217.
See also Abraham, E. P.
- Baker, W. O., and Fuller, C. S., macromolecular disorder in linear polyamides; relation of structure to physical properties of copolyamides, I, 54. Intermolecular forces and chain configuration in linear polyamides; effect of *N*-methylation on the X-ray structure and properties of linear polyamides, I, 251.
- and Yager, W. A., relation of dielectric properties to structure of crystalline polymers. I. Polyesters. II. Linear polyamides, I, 6.
- Bakre, H. Y., orthoptic training, III, 384.
- Balandin, A. A., theory of complex reactions. I. Basis of the theory; kinetic simplexes. II. Kinetic complexes; property diagrams; super-reactions, I, 155. Preferential paths in contact catalysis, I, 311. "Sliding" isomerism ("olisthomerism"), II, 77.
- Marschkin, M. N., and Afanasiev, M. M., contact decomposition of hydrocarbons; conversion of *n*-butane under the action of carbon dioxide over nickel-alumina catalysts, I, 311.
- and Patrikeev, V. V., carbon deposition in decomposition of ethylbenzene on metal surfaces and study of this process by means of a photoelement, I, 66.
- Balarev, D., disperse structure of solid crystalline systems, and its thermodynamic basis. III. and VIII., I, 8, 303.
- Balberor, H. See Lyons, R. H.
- Balcazar, M. R. See Castaneda, M.
- Baldes, E. J. See Roepke, R. R.
- Baldwin, F. M., and Movitt, E. J., nutritional value of autoclaved and raw soya beans supplemented only by vitamins and salt mixture, III, 252.
- Baldwin, H. R. See Hale, E. B.
- Baldwin, H. S. See Loveless, M. H.
- Baldwin, I. L. See Roberts, J. L., and Van Lanen, J. M.
- Baldwin, R. R. See Rundle, R. E.
- Bale, W. F., and Bonner, J. F., jun., combined voltage-regulating and quenching circuit for Geiger-Müller counter, I, 287.
See also Hahn, P. F., and Pommerenke, W. T.
- Balfe, M. P., Doughty, M. A., Kenyon, J., and Poplett, R., alkyl-oxygen fission in carboxylic esters. II. Derivatives of *p*-methoxybenzhydrol, II, 9.
- Hills, H. W. J., Kenyon, J., Phillips, H., and Platt, B. C., optically active $\alpha\beta$ -dimethylallyl alcohols, II, 290.
- Kenyon, J., and Tarnoky, A. L., alkyl-oxygen fission in sulphuric esters, II, 359.
- and Webber, W. C., interaction of *p*-cresol and other phenols with chloral and its hydrate, II, 29.
- See also Airs, R. S.
- Balfour, W. M. See Hahn, P. F., and Pommerenke, W. T.
- Bali, N. K. See Bahl, R. K.
- Balint, M. See Balint, P.
- Balint, P., and Balint, M., lower fractions of plasma-proteins of normal individuals and non-febrile patients, III, 789.
- Balis, E. W., and Liebhafsky, H. A., forceps with platinum-covered tips, I, 240.
See also MacNevin, W. M.
- Ball, C. D. See King, L. C.
- Ball, H. A., effect of intravenous glycogen administration on rate of growth of the Walker carcinosarcoma 256 and sarcoma 180, III, 569.
See also Samuels, L. T.
- Ball, L. W., and Draper, D. R., apparatus used in radium radiography, I, 319.
- Ball, M. R. See Cope, O.
- Ball, R. P. See Keston, A. S.
- Ball, Z. B., and Barnes, R. H., effect of dietary supplements on growth and lactation in mouse, III, 668.
- Balance, G. A., irritation of urinary tract by "doped" beer, III, 566.
- Ballard, J. W. See Oshry, H. I.
- Ballard, W. W., light and sexual reproduction in Hydroids, III, 738.
- Ballaus, O., and Wagner, J., Raman effect. CXII. Free rotation. V. *iso*Butyl and propylene oxide derivatives, I, 144.
- Balling, T., control of diseases of cattle inimical to man: tuberculosis, III, 923.
- Ballon, O., prophylaxis of hypoprothrombinæmia of newborn infants with vitamin-K, III, 713.
- Balls, A. K., Axelrod, B., and Kies, M. W., soya-bean lipoxidase, III, 841.
- Balsler, B. H., alternating tremor and its relation to cortical pathways, III, 728.
- Baltzly, R., and Buck, J. S., characteristics of β -hydroxy- β -2,5-dimethoxyphenyl-isopropylamine hydrochloride, II, 130.
- Buck, J. S., and Ferry, C. W., quaternary salts, II, 27.
- Buck, J. S., and Ide, W. S., *NN*-dimethyl-ethylene diamine and [its] derivatives, II, 24. Diamino-peptides, II, 33. Chaulmoogryl quaternary salts, II, 58.
See also Ardis, A. E., Buck, J. S., and Ide, W. S.
- Balz, G., measurement of blackening of spectral lines with a logarithmic galvanometer scale, I, 71. Automatic timing device for spectrographic exposures, I, 71.
- Bambach, K., and Burkey, R. E., micro-determination of lead by dithizone, with an improved lead-bismuth separation, I, 100.
- Kehoe, R. A., and Logan, M. A., plasma-cell partition of blood-lead, III, 375.
See also Boyd, M. J., and Cholak, J.
- Ban, S. See Karschulin, M.
- Banay, R. S., alcoholism and crime, III, 345.
- Bance, S., Barber, H. J., and Woolman, A. M., bromination of diphenylalkanes and preparation of stilbene derivatives. I. $\alpha\beta$ -Diphenyl-ethane, II, 92.
- Banchetti, A., photochemical reactions of ketones. II. Benzpinacol and benzpinacolin, II, 35. $\alpha\alpha\beta\beta$ -Tetraphenylethanol, II, 130.
- Bandy, M. C., direction of flow of mineralising solutions, I, 168.
- Banerjee, S., and Guha, B. C., intradermal test as an index of vitamin-C nutrition. III. Urinary ascorbic acid, blood-ascorbic acid, and intradermal test time of guinea-pigs. IV. Intradermal test time and ascorbic acid content of the liver of guinea-pigs. V. Decolorisation time in intradermal vitamin-C test and disappearance of combined ascorbic acid in urine of guinea-pigs, III, 502.
- Banerjee, T., Chakravorty, H., and Sarker, S., photochemical decomposition of platinum complexes. I. Photochemical decomposition of platinum complexes with oxalic acid and malonic acid, I, 311.
- Banet, L. See Ehrenhaft, F.
- Bang, F. B., experimental infection of chick embryo with pseudorabies virus, III, 68. Synergistic action of *Hæmophilus influenzae suis* and swine influenza virus on chick embryo, III, 524. Course of experimental infection of chick embryo with virus of equine encephalomyelitis, III, 695.
- and Herriott, R. M., purification of equine encephalomyelitis virus by ultra-centrifugation, and maintenance of its activity with cysteine, III, 851.

- Banga, I., phosphorylation of glycogen in extracts of pigeon breast muscle, III, 142.
- Banks, B. M. See *Zetzel, L.*
- Banks, H. See *Seligman, A. M.*
- Banner, R. E., Derenik, S. N., and Thomas, L. E., action of enzymes, fish pancreatic islets, and foetal calf pancreas on insulin, III, 24.
- Bannister, F. A., brammallite (sodium illite), a new mineral from Llandeibie, South Wales, I, 211.
- and Lonsdale, (Mrs.) K., laboratory synthesis of diamond, I, 160. X-Ray study of diamonds artificially prepared by J. B. Hannay in 1880, I, 267.
- See also *Spencer, L. J.*
- Bannon, J., accurate high-sensitivity apiezon oil McLeod gauge, I, 139, 187.
- Baños, A., jun., statistical analysis of coincidences of cosmic rays, I, 270.
- Banowitch, M. M., Polayes, S. H., and Charet, R., periarteritis nodosa, III, 94.
- Bantz, A. C. See *Fulmer, E. I.*, and *Underkofler, L. A.*
- Baptist, M. See *Cuyler, W. K.*, and *Davis, C. D.*
- Barach, A. L., and Kagan, J., effects of low oxygen tensions on mental functioning of normal subjects and patients with psychoneurotic disease, III, 94.
- Molomut, N., and Landy, S., effect of pre-oxygenation on newborn rats exposed to simulated altitude of 55,000 feet (barometric pressure of 67.8 mm. Hg), III, 381.
- See also *Himwich, H. E.*, and *Johnson, A. E.*
- Baraeva, G. M. See *Altergot, V. F.*
- Baranger, P. M., and Mercier, J. M., colour reaction between ergosterol and methyl-dichloroarsine, II, 12.
- and Thomas, P. E., action on avian malaria of cinchona alkaloids from Cameroons and Belgian Congo, III, 831.
- Baranov, V. I., and Zeitlin, S. G., content and determination of actinium and its products in mineral waters, I, 104.
- Baranovski, T., crystallisation of albumin from human sarcoma, III, 402.
- Barantschik, N. See *Polesitski, A.*
- Barber, C. G., osteochondrosis deformans tibiae, non-rachitic bow leg in children, III, 449.
- Barber, H. J., cuprous cyanide; preparation and use, I, 133. Sulphonyl derivatives of amidines and imino-ethers, II, 162.
- Slack, R., and Wien, R., increase in toxicity of stilbamidine solution on exposure to light, III, 266.
- Slack, R., and Woolman, A. M., bromination of diphenylalkanes and preparation of stilbene derivatives. II. $\beta\gamma$ -Diphenyl-n-butane, II, 157.
- See also *Bance, S.*
- Barber, H. N., and Callan, H. G., effects of cold and colchicine on mitosis in newt, III, 621.
- Barbey, M., synapses on Mauthner's cells in goldfish, III, 13.
- Barborka, C. J., nutritional problems in wartime, III, 251.
- See also *Foltz, E. E.*
- Barbour, H. G., movement of body-water in anaesthesia, III, 588. Water exchanges due to anaesthetic drugs, III, 762.
- Barbour, J. H., and Seavers, M. H., comparison of acute and chronic toxicity of carbon dioxide with reference to narcotic action, III, 721. Narcosis induced by carbon dioxide at low environmental temperatures, III, 871.
- Barbour, P. H., jun. See *Schultz, F. H.*, jun.
- Barchatov, V., X-ray examination of structure of $K_3Co(CN)_6$, I, 53.
- and Shdanov, H. S., X-ray determination of unit cell of $K_3Co(CN)_6$ crystals, I, 53.
- Barchielli, R. See *Speroni, G.*
- Barclay, A. E., Barcroft, J., Barron, D. H., Franklin, K. J., and Prichard, M. M. L., pulmonary circulation times before and after functional closure of ductus arteriosus, III, 92.
- Barclay, J. A., bicarbonate content, free carbon dioxide, and $[H^+]$ of urine, III, 180.
- Barcroft, J., onset of respiration at birth, III, 232.
- and Barron, D. H., functional development of foetal brain, III, 858.
- McAnally, R., and Phillipson, A., physiological action of acetic acid in living tissues [on heart muscle], III, 459.
- See also *Barclay, A. E.*
- Bardeci, L., concentration of human iso-haemagglutinins in various conditions, III, 787.
- Barden, R. B., changes in iris pigmentation in metamorphosing amphibian larvae, III, 619.
- Barden, S. P., bone cyst successfully treated with X-rays, III, 679.
- Barefoot, S. W., and Callaway, J. L., exfoliative dermatitis due to phenobarbitone, III, 834.
- See also *Enswoorth, H. K.*
- Barenberg, L. H., and Greenberg, B., intrauterine amputations and constriction bands, III, 32.
- Barer, A. P., and Fowler, W. M., effect of iron on haemoglobin regeneration in blood donors, III, 546.
- See also *Fowler, W. M.*
- Bargen, J. A., chemotherapy in ulcerative intestinal disease, III, 583.
- Ashburn, F. S., Lindahl, W. W., and Pemberton, J. de J., ileostomy for chronic ulcerative colitis (end results and complications in 185 cases), III, 814.
- Jackman, R. J., and Wesson, H. R., studies on ileocaecal junction, III, 329.
- See also *Nunez, C. J.*
- Barkan, G., ejaculation induced by a uterine drug (gravitoxin), III, 345.
- Barkas, W. W., and Paton, J. M., determination of volumes by the use of carbon dioxide, I, 321.
- Barker, E. F., infra-red spectrum of triatomic molecules, I, 142.
- Barker, G. R. See *Gulland, J. M.*
- Barker, H. A., methane fermentation. VI. Influence of carbon dioxide concentration on rate of carbon dioxide reduction by molecular hydrogen, III, 772.
- and Beck, J. V., *Clostridium acidi-urici* and *Cl. cylindrosporum*, organisms fermenting uric acid and other purines, III, 62.
- and Taha, S. M., *Clostridium kluyverii*, an organism concerned in formation of caproic acid from ethyl alcohol, III, 63.
- Barker, L. F., acute generalised ataxia of encephalitic origin [and localisation of lesions], III, 467.
- Barker, M. H., Lindberg, H. A., and Thomas, M. E., sudden death and mercurial diuretics, III, 346.
- See also *Farnsworth, E. B.*
- Barker, N. W. See *Allen, E. V.*
- Barkley, J. E. See *Foulk, C. W.*
- Barkofsky, E. C. See *Mack, J. E.*
- Barksdale, J. D. See *Ingerson, E.*
- Barlow, A., primary sarcoma of choroid, III, 317.
- Barlow, F. A. See *Schwartz, L.*
- Barlow, H. See *Gye, W. E.*
- Barlow, O. W., and Kocher, H., utilisation by rat of vitamin-A, III, 253.
- See also *Huber, W.*
- Barman, J. M., Moreira, M. F. and Consolazio, F., effective stimulus for increased pulmonary ventilation during muscular exertion, III, 306.
- Barnard, R. D., aetiology of pathologic progressive axial myopia, III, 310.
- Barnartt, S., and Ferguson, J. B., increasing the sensitivity of Bourdon gauges, I, 266.
- Barnell, H. R., tropical fruits. XIV. Carbohydrate metabolism of banana fruit during storage at 53° F., III, 535.
- Barnes, A. R., and Burchell, H. B., significance of negative T-waves in all three standard leads of electrocardiogram, III, 460.
- See also *Currens, J.*, and *Tinney, W. S.*
- Barnes, B., basal temperature and basal metabolism, III, 413. Furunculosis [use of thyroid], III, 644.
- Barnes, E. O., biochemistry of varieties of apples, plums, and grapes grown in Minnesota, III, 361.
- Barnes, H. D. See *Foy, H.*, and *Quinton, M. H.*
- Barnes, J. See *Hamilton, W. J.*
- Barnes, M. See *Flax, L. J.*
- Barnes, (Miss) M. D., and La Mer, V. K., kinetics and equilibria of carbinol formation of phenolphthalein, I, 39.
- Barnes, R. B., and Salley, D. J., analysis for potassium by its natural radioactivity, I, 162.
- See also *Burton, C. J.*
- Barnes, R. H., and Lerner, A., metabolism of glycolic and glyoxylic acids, III, 829.
- Lundberg, W. O., Hanson, H. T., and Burr, G. O., effect of dietary ingredients on keeping quality of body-fat, III, 821.
- Rusoff, I. I., and Burr, G. O., influence of essential fatty acid deficiency on transport of fatty acids into liver, III, 337.
- See also *Ball, Z. B.*, and *Szegö, C. M.*
- Barnes, R. P., and Brandon, A., properties of 4-methoxydibenzoylmethane [benzoyl-anisoylmethane], II, 302.
- and Brown, R. J., phenyl 2:4:6-trimethylbenzyl diketone, II, 195.
- and Cochrane, C. C., properties of o-anisoylmesitylmethane, II, 66.
- Cooper, S. R., Delaney, H., and Tulane, V. J., acetylation of deoxybenzoins, II, 265.
- and Lucas, W. M., preparation and properties of an ene-diol; β -mesityl- α -anisyl-acetylene glycol, II, 66. Effect of methoxyl toward stabilising ene-diols, II, 66.
- Barnett, H. L., Perley, A. M., and Heinbecker, P., influence of eosinophil cells of hypophysis on kidney function, III, 808.
- Powers, J. R., Benward, J. H., and Hartmann, A. F., salicylate intoxication in infants and children, III, 139.
- Barnett, S. A., ascorbic acid in chick explants, III, 544.
- and Bourne, G., distribution of ascorbic acid in developing chick, III, 3.
- Barns, H. H. F., carcinoma of body of uterus, III, 129.
- Baron, B., and Brunner, M., active sensitisation in human beings with trichina antigen, III, 926.
- See also *Brunner, M.*
- Baroni, A., basic copper selenates, I, 133.
- and Marini-Bettolo, G. B., electron beam study of membranes formed by action of ammonia or potassium hydroxide on solutions of copper salts, I, 133.
- Barr, E. S., and Scott, L. B., preparing strips with uniformly varying blackening, I, 210.
- Barré, R., pigment of beeswax, III, 747.
- Barrelet, P., ascorbic acid saturation tests, III, 667.
- Barrer, R. M., viscosity of pure liquids. I. Non-polymerised fluids. II. Polymerised ionic melts, I, 120.
- Barrera, S. E. See *Strauss, Hans*, and *Zubin, J.*
- Barreto, A., reaction for investigation of amino-acids, II, 20.
- Barrett, C. D., jun. See *Frisch, A. W.*, and *Tripp, J. T.*
- Barrett, J. F., absorption and excretion of oxalate, III, 505. Oxalate content of blood, III, 716.
- Barrett, R. L., and McCaughey, W. J., system $Ca-O-SiO_2-P_2O_5$, I, 181.
- Barrette, P. C., and McCoy, K. M., isotopic metallic iodine in treatment of syphilis, III, 346.
- Barrick, E. R., Vestal, C. M., and Shrewsbury, C. L., nutritive value of fish meals for swine and rats, III, 404.
- Barrick, L. E., and Miller, J. R., gout, III, 827.
- Barringer, B. S., end-results of carcinoma of bladder treated by radium, III, 185.
- and Earl, D., teratoma testis, III, 820.
- Barrington, E. J. W., islet of Langerhans tissue in Ammocoete larva, III, 645.
- Barritt, A. S., jun. See *Whitney, L. H.*
- Barritt, M. M., improved Pappenheim stain for gonococci in pus smears, III, 524.

- Barren, D. H., development of motor cells and columns in spinal cord of sheep, III, 858.
See also Barclay, A. E., and Barcroft, J.
- Barren, E. S. G., and Goldinger, J. M., effect of iodoacetate and malonate on respiration of sea-urchin sperm, III, 652.
See also Gray, S. J.
- Barron, N. S., vitamin-A in relation to diseases of farm animals, III, 254.
- Barrow, R. F., and Vago, E. E., band spectrum of SnSe in emission, I, 248.
- Barrow, W. H., and Ouer, R. A., electrocardiographic changes with exercise, III, 548.
- Barrows, E. See Ulin, A. W.
- Barrows, E. F., and Dodd, H., body temperature of mice during anaesthesia, III, 675.
- Barrows, R. S., and Lindwall, H. G., condensation reactions of isoquinoline-1-aldehyde, II, 104.
- Barry, A., intrinsic pulsation rates of fragments of embryonic chick heart, III, 548.
- Barry, A. J. See Davis, W. E.
- Barschall, H. H. See Klema, E. D.
- Bartell, F. E., and Benner, F. C., adsorption at solid-liquid interfaces; determination of adsorption by adhesion-tension and interfacial-tension measurements on binary organic liquid systems, I, 89.
See also Davis, J. K.
- Bartels, E. C., successful treatment of gout, III, 828.
- Stuart, C. K., and Johnson, E. C., adrenal gland in hyperthyroidism, III, 735.
- Barth, E. E. See Perlov, S.
- Barthel, R., phenol-formaldehyde resins; acetylation of hydroxybenzyl alcohols, II, 129.
- Barthenheimer, J. See Borsche, W.
- Bartholomay, H., jun. See Brown, Herbert C.
- Bartholomew, R. J. See Poate, H. R. G.
- Bartlett, F. C., fatigue following highly skilled work, III, 594. Visual function and visual perception, III, 803.
- Bartlett, J. W. See Shuart, C. E.
- Bartlett, M. K. See Rock, J.
- Bartlett, N. R., and Hudson, G. E., theory of effects of light intensity and duration in determining visual responses, III, 18.
- Bartlett, P. D., and Cohen, S. G., ester groups in polystyrene made with chloro- and bromobenzoyl peroxides, II, 223.
- Cohen, S. G., and Ryan, M. J., triptycene [9:10-o-phenyleneanthracene], II, 87.
and Jones, J. E., tri-o-tolylmethane, II, 5.
- Bartlett, R., classification of rheological properties, I, 87.
- Bartlett, W., hydration of hyperthyroid patients and its relationship to oedema, III, 476.
- Bartley, M. W. See Roberts, H. M.
- Bartley, W. C. See Mellanby, K.
- Barton, A. D., and Young, L., p-toluidine salts of monoaryl sulphates, II, 159.
- Barton, D., Edwin Emery Slosson, I, 104.
- Barton, D. H. R. See Alexander, P.
- Barton-Wright, E. C., and Booth, R. G., assay of riboflavin in cereals and other products, I. and II, III, 409.
- Bartram, M. T., and Black, L. A., productivity of media containing milk for recently isolated strains of the coliform group, III, 209.
- Bartrum, J. A., unusual olivine in basalt near Auckland, New Zealand, I, 171.
- Barusch, M. R. See Lieberman, S., and Noller, C. R.
- Barve, P. M., Naimpally, R. B., and Desai, B. N., mutual coagulation of colloidal solutions. V. Effect of dilution on the mutual coagulation of colloidal solutions of ferric hydroxide and thorium hydroxide by Prussian-blue, I, 128.
See also Naimpally, R. B.
- Bashford, T. E., heat-resistance of spores of a putrefactive anaerobe, III, 524.
- Basnett, E. M., metamorphism and assimilation in Wellington District, N.S.W. II. Dynamic and contact metamorphism of a group of ultrabasic rocks, I, 75.
- Bass, A., Berkman, S., Koser, S. A., and Saunders, F., growth factors for *Hemophilus influenzae* and *Hemophilus para-influenzae*, III, 211.
- Berkman, S., and Saunders, F., additional growth factor needed by haemolytic streptococci, III, 438.
- Bass, M. H., paroxysmal tachycardia in early infancy, III, 460. Tetany of newborn, III, 557.
- Basset, J., density of graphite and determination of mean coefficient of compressibility between 1 and 20,000 kg. per cm.², I, 9. Electric arcs in gases at high pressures, I, 111.
- Bast, H. See Albrecht, R.
- Bast, T. H., development of otic capsule. VI. Histological changes and variations in growing bony capsule of vestibule and cochlea, III, 107. Embryological observations bearing on otosclerosis, III, 318.
- and Shover, J., historical survey of structure and function of cochlea, III, 734.
- Basterfield, S., and Dyck, A. J., urethanes. VII. Reactions of acyl diurethanes with ammonia and primary amines; stabilising effect of the phenyl radical in phenyl-malonyl- and phenylsuccinyl-diurethane, II, 163.
- Bastron, H., Davis, R. E., and Butz, L. W., absorption of light by $\alpha\text{-dien-}\gamma\text{-inenes}$ in the region 2300—2900 Å, I, 217.
- Basu, D. See Bhabha, H. J.
- Basu, K. P., and Nath, H. P., biological value of the proteins of papaya (*Carica papaya*) and lady's finger (*Hibiscus esculentus*), III, 495. Role of phosphorus, flavin, and hormones in utilisation of proteins, III, 504.
- Basu, U. P., and Bose, A. N., toxicity of a dialkylaminoalkylaminoacridine akin to "atebrin," III, 52.
- Batalin, V. S., and Ugnimov, P. G., preparation of derivatives of ψ -butylene, II, 1.
- Batashev, K., and Shurin, A., electrical conductivity of the potassium fluoride-aluminium fluoride and potassium aluminium fluoride-alumina systems, I, 17.
- Batchelder, E. L. See Levcowich, T.
- Bateman, J. D., geology and metamorphism in McVeigh Lake area, N. Manitoba, I, 44.
- Bates, F. L., French, D., and Rundle, R. E., amylose and amylopectin content of starches determined by their iodine complex formation, II, 157.
- Bates, J. V., post-scarlatinal thrombophlebitis migrans, III, 627.
- Bates, L. F., and Healey, D. R., adiabatic temperature changes accompanying magnetisation of iron in low and moderate fields, I, 148.
- Bates, R. G., Hamer, W. J., Manov, G. G., and Acree, S. F., provisional pH values for standard buffer solutions, I, 227.
- Bates, R. W., Laanes, T., MacDowell, E. C., and Riddle, O., growth in silver dwarf mice, with and without injections of anterior pituitary extracts, III, 25.
- and Schooley, J. P., assay of pituitary gonadotropins using augmentation reaction, III, 26.
See also Lahr, E. L., and Riddle, O.
- Bates, T. F., nature and origin of the Edwin clay, Ione, California, I, 212.
- Batjer, L. P., Magness, J. R., and Regeimbal, L. O., effect of root temperature on growth and nitrogen intake of apple trees, III, 698.
See also Magness, J. R.
- Batiwalla, K. C., glycosuria in pregnancy, III, 193.
- Batten, D. H., absorption of carbon dioxide in anaesthesia apparatus, III, 587.
- Batterman, R. C., and Mulholland, J. H., demerol; substitute for morphine in treatment of postoperative pain, III, 588.
See also De Graff, A. C.
- Baturin, V. P., stability and formation of minerals of abyssal geospheres in the stratosphere, I, 323.
- Batyka, E. See Muller, Alexander.
- Bauch, R., relationship between polypliodal, carcinogenic, and phytohormonal substances; production of yeast *Gigas* mutations by plant growth factors, III, 520.
- Baud, L., free gold in basic rocks of district of Kaya (Upper Ivory Coast), I, 106.
- Baudouy, C. T., fixation of formaldehyde by scleroproteins, II, 179.
- Bauer, C. D., and Berg, C. P., growth in mice on diets deficient in cystine but not methionine, III, 574.
- Bauer, C. W. See Marshall, A. L. F., jun.
- Bauer, E. E. See Cornog, J.
- Bauer, L. H., aviation medicine, III, 792.
- and Beach, J. Y., structure of methylene-cyclobutane and hexamethylene-ethane, I, 251.
- Bauer, N., and Fajans, K., molar dispersion and refraction of free and bonded ions, I, 121.
- Bauer, R., effect of hemicellulose hydrogels on character of stool and bowel movement, III, 178.
- Bauer, S. H., Finlay, G. R., and Laubengayer, A. W., donor-acceptor bonding. II. Electron diffraction of dimethyl ether-boron trifluoride, I, 195.
- and Hastings, J. M., structures of boron dimethyl fluoride and boron methyl difluoride, I, 54.
- Hastings, J. M., and MacMillan, D. P., voltage stabiliser for electron diffraction power supply, I, 265.
- Baule, B., propagation of a thermal disturbance, I, 32.
- and Kratky, O., micellar structure and deformation processes with fibrous materials. X. Extension of amorphous region by "affine" distortion of a micellar network, I, 84.
- Baum, W. S. See Clausen, S. W., and Lichty, J. A., jun.
- Bauman, E. See Ryan, J. D.
- Bauman, K. L. See Samuels, L. T.
- Baumann, A., development of renal fascial sheath, III, 541.
- Baumann, C. A., Field, J. B., Overman, R. S., and Link, K. P., haemorrhagic sweet clover disease; induced vitamin-C excretion in rat and its effect on hypoprothrombinemia caused by 3,3'-methylenebis-(4-hydroxy-coumarin), III, 227.
See also Field, J. B., and Overman, R. S.
- Baumann, E. J., Metzger, N., and Marine, D., total iodine and thyroxine of thyroid after hypophysectomy, III, 25. Comparison of activity and distribution of iodine in reptilian and mammalian thyroids, III, 321.
- Baumann, L. See Landauer, W.
- Baumann, T., use of sulphathiazole in pediatrics, III, 417.
- Baumann, W. E., and Brock, J. F., vitamin-C deficiency in Cape Peninsula school children, III, 578.
- Baumfeld, L., reduction of titanic ion in the Jones reductor, I, 286.
- Baumgarten, P., addition of sulphuric acid to olefines of high mol. wt., II, 80.
and Dornow, A., two heterovitamins-B₁, II, 245.
and Riedel, M., reaction of carbazole with malonic esters to 1:9-malonylcarbazoles,
- Baumgartner, C. J., leiomyosarcoma of stomach, III, 251. Hyperparathyroidism with normal blood chemistry, III, 645.
- Baumgartner, H. See Ruzicka, L.
- Baur, E., and Giger, P., kinetics of phloroglucinolcarboxylic acid, I, 204.
and Niggli, F., assimilation of carbon dioxide *in vitro*, III, 536. Assimilation *in vitro*, III, 778.
and Ruf, H., anticalysis and temperature, mutual restriction and auto-restriction, I, 183.
- Baur, H. See Edlbacher, S.

- Bavetta, L. A., and Deuel, H. J. jun., effect of adrenalectomy on absorption of hydrogenated cottonseed oil, corn oil, tributyrin, and sodium butyrate, III, 109. Adrenalectomy and fat absorption, III, 177.
- Bavousett, N. D. See McCreery, J.
- Bawden, F. C., and Pirie, N. W., inactivation of tomato bushy stunt virus by heating and freezing, III, 441. Purification of tomato bushy stunt and tobacco mosaic viruses, III, 441.
- Pirie, N. W., and Ogston, A. G., preparations of viruses causing tobacco necrosis, III, 288.
- Baxt, V. J. See Saylor, J. H.
- Baxter, E. W., and Robinson, G. G., vascular couples of hind-gut in *Petromyzontia*, III, 617.
- Baxter, J. G., and Robeson, C. D., crystalline vitamin-A, II, 90. Crystalline aliphatic esters of vitamin-A, II, 90.
- Robeson, C. D., Taylor, J. D., and Lehman, R. W., natural α -, β -, and γ -tocopherols and esters of physiological interest, II, 273.
- See also Robeson, C. D.
- Baxter, S., electrical conduction of textiles, I, 258.
- Bayerle, H., and Podloucky, F. H., d -peptidases in normal and carcinomatous tissue, III, 682. Occurrence of sterically selective enzymes in the carcinomatous organism, III, 769.
- Bayliss, M., sodium lauryl sulphate solubility test for identification of pneumococci, III, 691.
- Baylor, E. R., drug actions on heart of *Daphnia*, III, 867.
- Beacall, T., m.p. and unit cell dimensions of symmetrical halogenobenzenes, I, 251.
- Beach, E. F., Hoffman, O. D., Hummel, F. C., Macy, L. G., Munks, B., Teague, D. M., and Williams, H. H., sulphur metabolism in children, III, 415.
- Munks, B., and Robinson, Abner, amino-acid composition of animal tissue protein, III, 658.
- Beach, F. A., importance of progesterone to induction of sexual receptivity in spayed rats, III, 393. Copulatory behaviour in prepuberally castrated male rats and its modification by oestrogen administration, III, 478. Male and female mating behaviour in prepuberally castrated female rats treated with androgens, III, 481.
- and Rasquin, P., masculine copulatory behaviour in intact and castrated female rats, III, 122.
- Beach, J. Y. See Bauer, L. H.
- Beach, S. J., correction of low astigmatism : subtraction test, III, 730. Anisocyclopia, III, 732.
- Beadle, B. W., Greenwood, D. A., and Kraybill, H. R., heat-stability of thiamin. I. Effect of pH and buffer salts in aqueous solutions. II. Effect of meat-curing ingredients in aqueous solutions and in meat, III, 823.
- Beadle, L. C., haemolymph in sea-water mosquito larvae, III, 181.
- and Cragg, J. B., adaptation to salinity in *Gammarus*, III, 249.
- Beadles, J. R. See Mitchell, H. H.
- Beahm, E. H., bacteriological study of streptococci from raw retail milk, III, 66.
- Beal, G. D. See Liddell, R. W.
- Beall, G., transformation of data from entomological field experiments so that analysis of variance becomes applicable, III, 156.
- Beams, H. W. See King, R. L.
- Beams, J. W., production and maintenance of high centrifugal fields for use in biology and medicine, I, 72.
- Bean, J. W., specificity in renin-hypertensinogen reaction, III, 92.
- Bean, W. B., development of cutaneous arterial "spiders" and palmar erythema in persons with liver disease and their development following administration of oestrogens, III, 36.
- Spies, T. D., and Blankenhorn, M. A. pellagra in Ohio hospitals, III, 189.
- Bear, F. E. See Pepkowitz, L. P.
- Bearcroft, W. G. C. See Rooyen, C. E. van.
- Beard, D. See Finkelstein, H., Sharp, D. G., and Taylor, A. R.
- Beard, E. E., and Garver, W. P., pituitary antagonists in treatment of bronchial asthma, III, 95.
- Beard, J. W. See Bryan, W. R., Finkelstein, H., Sharp, D. G., and Taylor, A. R.
- Beard, M. See Doan, C. A.
- Beardsley, G. S., artificial cross-insemination, III, 652.
- Beaser, S. B., and Massell, T. B., testosterone in peripheral vascular disease, III, 482.
- Beasley, J. L. jun., and Harris, Linden E., chemistry of Oklahoma plants. V. *Ephedra nevadensis*, Watson, III, 150.
- Beaton, L. E., and Anson, B. J., arterial supply of small intestine, III, 77.
- and Leininger, C. R., spinal distribution of thermoregulatory pathways in monkey, III, 794.
- Leininger, C. R., and McKinley, W. A., thermoregulatory pathways in cat brain stem, III, 795.
- See also Bothie, R. T., Curtis, A. H., and Magoun, H. W.
- Beattie, J., fate of transfused plasma, III, 456.
- and Collard, H. B., plasma-protein concentration after haemorrhage, III, 374. Plasma-protein storage, III, 374.
- Beatty, C., 3rd, anhydrous copper sulphate in Kjeldahl nitrogen determination, I, 263.
- Beaulieu, R., Robillard, E., and Selye, H., lingual-maxillary reflex and pregnanediol anaesthesia, III, 482.
- Beaumont, G. E., and Robertson, J. D., pituitary hypothyroidism with impaired renal function, III, 885.
- Beauvallet, M., spontaneous cessation of effects of adrenaline on isolated intestine without destruction of adrenaline; conditions that favour or inhibit this destruction, III, 557.
- See also Tiffeneau, R.
- Beaven, P. W., value of tuberculin skin tests [in paediatrics], III, 214.
- Beaver, D. C., Sandweiss, D. J., Saltzstein, H. C., Farbman, A. A., and Sanders, A. W., effect of urine extracts on prevention and healing of experimental peptic ulcers in dogs, III, 395.
- Beazell, J. M. See Laing, G. H.
- Bechet, P. E., eruptions following use of patch test [in contact dermatitis], III, 71.
- Beck, A. B. See Bennetts, H. W.
- Beck, E. C., and Hubbard, R. S., fate of patients after weight reduction, III, 130.
- Beck, G., and Martins, J. L. R., spin inversion processes and nuclear spectroscopy, I, 112.
- Beck, G. M., anxiety state in relation to hyperthyroidism, III, 169.
- Beck, J. V. See Barker, H. A.
- Beck, M. D., and Eaton, M. D., identification of two strains of virus isolated from cases of atypical pneumonia, III, 287.
- Beck, S. See Peacock, P. R.
- Beck, W. C. See De Takats, G.
- Becker, A., selenium photo-elements. V. Effect of α -rays, I, 29.
- and Schaper, I., analysis of radioactive solutions, I, 24.
- Becker, B. See Stoll, A.
- Becker, E. R., and Dilworth, R. I., *Eimeria nieschulzi*-growth-promoting potency of feeding stuffs. II. Vitamins-B₁ and -B₆, III, 408.
- Johnson, E. M., and Manresa, M. jun., reduction in efficiency of ablative action in *Trypanosoma lewisi* infection by withholding pantothenic acid from the host's diet, III, 686.
- Manresa, M. jun., and Smith, Lawrence, *Eimeria nieschulzi*-growth-promoting potency of feeding stuffs. V. Dry-heating ingredients of ration, III, 411.
- Becker, H. C. See Englis, D. T.
- Becker, R. A., Fowler, W. A., and Lauritsen, C. C., short range α -particles from fluorine bombarded with protons, I, 3.
- Becker, R. F. See Whitehead, W. H., and Windle, W. F.
- Becker, S. W. See Kahn, D., and Reuter, M. J.
- Becker, T. J. See Cassels, W. H.
- Beckett, E. G., and Webster, M. F. H., determination of small quantities of boric acid in organic substances, II, 403.
- Beckh, W. See Wayburn, E.
- Beckman, W. M., Hiller, A., Shedlovsky, T., and Archibald, R. M., occurrence in urine of a protein soluble in trichloroacetic acid, III, 567.
- Becks, H. See Kibrick, E. A.
- Beckwith, T. D., and Geary, E. M., effect of indolyl-3-acetic acid on multiplication of *Esch. coli* and *E. typhosa*, III, 62.
- See also Fish, C. H., and Morgan, H. R.
- Bedell, M. See Lewis, K. H.
- Bedford, T., lung disease in coal miners, III, 837.
- and Warner, C. G., measurements of concentrations of air-borne dusts, III, 913.
- Bedford, T. H. B., subarachnoid pressure and venous pressure in superior longitudinal sinus and torcular of dog, III, 101.
- Bedrintzeva, A. B. See Vasserman, E. S.
- Bedwell, M. E., solubility of ammonium bromide in alcoholic solvents, I, 255.
- Beebe, A. H. jun., Coulter, K. E., Lindsay, R. A., and Baker, Edwin M., equilibria in ethanol-water system at pressures less than atmospheric, I, 91.
- Beebe, J. M., morphology and cytology of *Myxococcus xanthus*, n. sp., III, 282. Myxobacteria. III. Utilisation of carbohydrates, III, 436.
- Beecher, H. K., and Adams, R., ether anaesthesia in pulmonary tuberculosis, III, 420.
- and Craig, F. N., tissue metabolism following shock induced by haemorrhage, III, 669.
- Craig, F. N., Follansbee, R., and Murphy, A. J., determination of oxygen content of body fluids by polarographic analysis, III, 220.
- and McCarrell, J. D., reduction of fluid loss from damaged (burned) tissues by barbiturate, III, 719.
- See also Craig, F. N., Foldes, F. F., Moyer, C. A., and Polderman, H.
- Beeman, E. A. See Adams, A. E.
- Beeman, J., identification of seminal stains by Florence reaction, III, 122.
- Beerman, H., and Severac, M., treatment of resistant syphilis, III, 775.
- Shaffer, B., and Livingood, C. S., bismarsen in treatment of syphilis, III, 591.
- See also Stokes, J. H.
- Beers, Y., direct determination of charge of the β -particle, I, 173.
- Beerstecher, E. jun., variations in oestrogen content of urine of female rabbits, III, 117.
- Beeson, P. B., and Hoagland, C. L., calcium chloride in treatment of rigors, III, 198.
- and Westerman, E., sulphonamides in cerebrospinal fever, III, 508.
- See also Scott, T. F. M.
- Begetova, A. P. See Buschmakin, I. N.
- Beggs, E. W., activating light sources for luminescent materials, I, 185.
- Begor, F. B. See Townsend, S. R.
- Behnke, A. R. jun., physiology of deep sea diving and aviation [and fat content and composition of body], III, 870.
- Fee, B. G., and Welham, W. C., specific gravity of healthy men and athletes, III, 37.
- Behre, C. H. jun., and Garrels, R. M., ground water and hydrothermal deposits, I, 321.
- Behrendt, H., intracellular and extracellular blood-phosphorus, III, 7. Blood-phosphorus partition in tetany and guanidine poisoning, III, 88. Intracellular and extracellular blood-phosphorus in anaemia in children and in experimental anaemia, III, 370.
- Behrman, H. T. See Combes, F. C., and Levin, O. L.
- Behrman, W., indifferent position and production of nystagmus, III, 476.
- Behrmann, V. G. See Fay, M.

- Beinert, H. See Bonhoeffer, K. F.
 Beischer, D. See Ardenne, M. von.
 Beiswanger, J. See Riegel, B.
 Belart, W., effects of parvitin in schizophrenia, III, 15.
 Belcher, R., and Spooner, C. E., ultimate micro-analysis of organic compounds, II, 315.
 Belfer, S., Koran, P., Eder, H., and Bradley, H. C., autolysis of invertebrate tissues, III, 598.
 Beliaev, A. F., and Beliaeva, A. E., burning of mercury fulminate at low pressures, I, 157.
 Beliaeva, A. E. See Beliaev, A. F.
 Belk, W. P., and Rosenstein, F., survival after transfusion of human erythrocytes stored in citrate glucose, III, 226.
 Belkin, M., and Stern, K. G., metabolism of Yale carcinoma, III, 897.
 Bell, A. See Allen, C. F. H.
 Bell, F. H. See Meyer, B. S.
 Bell, F. K. See Krantz, J. C., jun.
 Bell, G. H., and Cuthbertson, D. P., effect of hormones on chemical and physical properties of bone, III, 857.
 and Guthmann, E., photo-electric haemoglobinometer, III, 864.
 Lazarus, S., Munro, H. N., and Scarborough, H., capillary fragility tests, III, 461.
 Bell, J., Gillespie, W. A., and Taylor, D. B., bearing of dissociation constant of urea on its constitution, I, 201.
 Bell, K. R. See Moore, G. B., jun.
 Bell, P. H., and Roblin, R. O., jun., chemotherapy. VII. Theory of relation of structure to activity of sulphanilamide type compounds, III, 415.
 See also English, J. P.
 Bell, R. P. See Longuet-Higgins, H. C.
 Bell, S. A., and Taub, A., derivatives from hydrogenated castor oil. II. Glycol esters of α -hydroxystearic acid, II, 251.
 Bell, T. A., Yarborough, M., Clegg, R. E., and Satterfield, G. H., ascorbic acid content of muscadine grapes, III, 257.
 Bellis, C. J., Larsen, W. P., and Stevens, B., impermeability of viable obstructed bowel of dogs to *Clostridium botulinum* toxin, III, 329.
 Bellows, J. G., and Chinn, H., intraocular haemorrhages in choline deficiency, III, 879.
 Belonogov, P. S., solubility of ammonium chloroplatinate in ammonium chloride solutions, I, 225.
 Belova, V. I. See Babaeva, A. V.
 Below, N. V., silicate structures, I, 323.
 Belt, T., and King, E. J., failure of aluminium to prevent experimental silicosis, III, 425.
 Bembry, T. H., and Powell, G., synthesis of phenolic glucosides, II, 84.
 Benard, M., and Berfa, L., opsonic activity of serum of right and left ventricles, III, 788.
 Benda, C. E., endocrine aspects of mongolism, III, 388.
 Bender, C. B. See McManus, T. B.
 Bender, L., cerebral sequelæ and behaviour disorders following pyogenic meningoencephalitis in children, III, 383. Burn encephalopathies in children, III, 467.
 Bender, M. B., Abramson, H. A., and Ehrlich, G., effect of atropine on mecholyl and whealing reaction of skin, III, 585.
 and Savitsky, N., micropsia and teleopsia limited to temporal fields of vision, III, 804.
 and Wechsler, I. S., irregular and multiple homonymous visual field defects, III, 316.
 and Weinstein, E. A., hypothalamic stimulation yielding adrenaline reversal effects, III, 15.
 See also Wechsler, I. S.
 Bender, M. E., eyelid closure reaction, III, 468.
 Bender, R. C. See Supplee, G. C.
 Bendich, A. See Chargaff, E.
 Bendien, W. M., and Sommer, H., purification of paralytic shellfish poison by filtration through active charcoal, III, 679.
 Benedetti-Pichler, A. A., and Cefola, M., qualitative analysis of microgram samples; general technique and confirmatory tests; separation, estimation, and identification of ions of hydrogen sulphide group, I, 68, 185.
 and Siggia, S., end-point of micro-titration with colour indicators, I, 69.
 See also Rodden, C. J.
 Benedicks, C. See Lofquist, H.
 Benedict, M., Webb, G. B., and Rubin, C., empirical equation for thermodynamic properties of light hydrocarbons and their mixtures. II. Mixtures of methane, ethane, propane, and *n*-butane, I, 92.
 Benedict, W. L., multiple sclerosis as aetiologic factor in retrobulbar neuritis, III, 310.
 and Parkhill, E. M., glioma of retina, III, 802.
 Benedikt, E. T. electrodynamic determination of the magnetic moment of plates, I, 266.
 Benend, W. See Wieland, H.
 Benesi, O., unilateral otosclerosis with microscopic description of the focus, III, 318. Development of otosclerosis, III, 642.
 Benford, F., accuracy of general physical constants, I, 196.
 and Ruggles, W. A., characteristics of metal mirrors and gonioreflectometer, I, 25.
 Bengtsson, E., X-ray study of monetites and related compounds, I, 145.
 Beniams, H., and Gustavson, R. G., theory and application of a two-path rectangular microelectrophoresis cell, I, 128.
 Benjamin, B., Fleming, G., and Ross, M. A., Schick test reactions and serum antitoxin titres after injections of toxoid, III, 435.
 See also Tarlov, I. M.
 Benjamin, H. R., Gordon, H. H., and Marples, E., calcium and phosphorus requirements of premature infants, III, 663.
 and Weech, A. A., basal heat production in relation to growth, III, 756.
 Benjamin, J. A. See Krichesky, B.
 Benjamin, J. E. See Abramson, D. I.
 Benjamin, J. W. See McGavack, T. H.
 Benne, E. J., [determination of] chlorophyll and carotene in plant tissue, III, 151.
 See also Comar, C. L., and Cowling, H.
 Benner, F. C. See Bartell, F. E.
 Bennett, D. J., Pritchard, R. R., and Simonsen, J. L., dinitrobenzanthrone, II, 95.
 Bennett, E., carbohydrates of the Ebenezer onion, III, 928.
 Bennett, (Miss) H. See Spencer, L. J.
 Bennett, H. E., manipulation of Wollaston wire, I, 26.
 Bennett, H. G., and Te Linde, R. W., implantation of crystalline oestron β pellets for menopausal syndrome, III, 117.
 Bennett, M. A., and Toennies, G., nutritional assay of casein modified by action of hydrogen peroxide and formic acid, III, 186.
 Bennett, R. H., Spitz, S. H., and Loughlin, E. H., treatment of type III pneumococcus pneumonia with sulphanilamide, III, 195.
 See also Loughlin, E. H.
 Bennett, R. J. See Larson, C. P.
 Bennett, W. H., mobilities in nitrogen at high current densities, I, 46.
 Bennetts, H. W., and Beck, A. B., enzootic ataxia and copper deficiency of sheep in Western Australia, III, 900.
 Benoit, G. J., jun., and Norris, E. R., effect of formaldehyde on the volatilisations of ammonia, mono-, di-, and tri-methylamine, II, 51.
 Bensin, I. B. See Bachman, C. H.
 Benson, M. E. See Van Pernis, F. A.
 Benson, R. A., dried vegetables in feeding of children, III, 40.
 Witzberger, C. M., Slobody, L. B., and Lewis, L., blood level of vitamin B_1 in healthy children and its relation to urinary thiamin, III, 408.
 Benson, R. C. S., and Percival, R. C., sulphapyridine anuria, III, 341.
 Benson, R. E. See Malcolm, R. B.
 Benson, S. W., and Forbes, G. S., apparatus for photolysis studies in the gas phase. I. Acetone and iodine mixtures, I, 281.
 Benson, W. M. See Welch, A. D.
 Bentle, P. F., and Walton, J. H., catalytic activity of activated nitrogenous carbons, I, 205. Effect of active nitrogen and of nitrogen compounds on catalytic properties of carbon, I, 280.
 Bentley, J. P. See Morley, G. H.
 Benton, A. F. See Gwathmey, A. T.
 Benton, A. L., and Howell, I. L., use of psychological tests in evaluation of intellectual function following head injury, III, 100.
 Benward, J. H. See Barnett, H. L.
 Berardi, J. B. See Blick, P.
 Berblinger, W., intestinal bleeding after obstruction of inferior vena cava, III, 631.
 Bercovitz, Z., preventive methods in tropical diseases, III, 279.
 See also Page, R. C.
 Bercow, C., and Poppell, M. H., interstitial calcinosis circumscripta associated with scleroderma and Raynaud's disease, III, 94.
 Berenblum, I., Crowfoot, D. M., Holiday, E. R., and Schoental, R., metabolism of 3:4-benzopyrene in mice and rats. II. Identification of isolated products as 8-hydroxy-3:4-benzopyrene and 3:4-benzopyrene-5:8-quinone, III, 896.
 and Schoental, R., metabolism of 3:4-benzopyrene in mice and rats. I. Isolation of a hydroxy- and a quinone derivative, and their biological significance, III, 896.
 Berenesi, G., inheritance of diabetes mellitus, III, 708. Gaseous metabolism of *Bacillus prodigiosus* on silica gel medium containing d-xylose, III, 849.
 See also Goreczky, L.
 Berenda, C. W., rotating disc, I, 4.
 Berendt, H. See Roth, W. A.
 Bernstein, M. See Susz, B.
 Bereston, E. S., and Baer, R. L., keratoconus associated with atopic dermatitis, III, 166.
 Berg, A. A., and Rosenthal, N., ligation of splenic artery for thrombocytopenic purpura and congestive splenomegaly, III, 453.
 Berg, B. N. See Bloch, K.
 Berg, C. P. See Bauer, C. D., Borchers, R., and Featherstone, R. M.
 Berg, R. L. See Westerfeld, W. W.
 Bergeim, O., toxicity of intestinal volatile fatty acids for yeast and *Esch. coli*, III, 59.
 and Cornbleet, T., antibacterial action of lactic acid and volatile fatty acids of sweat, III, 895.
 Hanszen, A. H., Pineussen, L., and Weiss, E., relation of volatile fatty acids and hydrogen sulphide to intestinal flora, III, 432.
 See also Kirch, E. R.
 Bergk, T. See Hagglund, E.
 Bergel, F., and Morrison, A. L., oxidation of adrenaline, II, 139. 5-Hydroxyindole, II, 139.
 Morrison, A. L., Rinderknecht, H., Todd, A. R., Macdonald, A. D., and Wolfe, G., *Cannabis indica*. XII. Some analogues and a water-soluble derivative of tetrahydrocannabinol, II, 274.
 Bergenhem, B., aggregation and metabolism of erythrocytes, III, 545.
 Berger, A. See Feitknecht, W., and Peshkin, M. M.
 Berger, E. See Bredereck, H.
 Berger, F. M., agglutination test for serological diagnosis of syphilis, III, 923.
 Berger, G. See Appel, H.
 Berger, H., case of beri-beri [in New York State], III, 189.
 Berger, L., sympathetic tropic cell tumour of ovary and virilism, III, 479.
 See also Mandelbaum, H.
 Berggren, S., anatomical investigation of Meniere's disease, III, 475.
 Bergman, A. G., homeomorphous transformations of potassium chloride, bromide, and iodide in a homogeneous crystalline medium, I, 62.

- Bergman, A. G., and Vlasov, N. A., polytherm of ternary system $H_2O-KCl-KBr$, I, 129.
See also Krauze, E., and Volkov, N. N.
- Bergman, A. J., and Turner, C. W., gonadotropic hormone in anterior pituitary of male and female rabbits during growth, III, 170. Effect of pregnancy and lactation on thyrotropic hormone of rabbit, III, 560. See also Kibler, H. H., Mixner, J. P., and Trentin, J. J.
- Bergmann, F., tumour production by chemical agents, III, 331.
- and Eschinazi, H. E., 1:2:3:4-dibenzphenanthrene and its derivatives. I. Synthesis with chrysene as starting material, II, 296. Steric course and diene reaction, II, 328.
- Eschinazi, H. E., and Neeman, M., diene reaction, II, 235.
- and Hirshberg, Y. photochemical pinacolinisation, II, 329.
- and Schapiro, D., acylation experiments with sulphanilamide and heterocyclic amines. II and III, II, 28.
- See also Eschinazi, H. E.
- Bergmann, Louis, blood vessels of human celiac ganglia and changes in their vascular pattern associated with age, III, 449.
- Bergmann, Ludwig, and Ronge, F., photoelectric investigations with luminous substances, I, 249.
- Bergmann, M., and Fruton, J. S., influence of substrate structure on kinetics of carboxypolypeptidase action, II, 11, 56. Multiple specificity of chymotrypsin, II, 11.
- See also Doherty, D. G., and Fruton, J. S.
- Bergmann, W., McLean, M. J., and Lester, D., marine products. XIII. Sterols from marine invertebrates, II, 331.
- and Pace, W. T., scymnol, II, 198.
- and Stansbury, H. A., jun., marine products. XIV. Astrol, III, 895.
- See also Kind, C. A., and Lyon, A. M.
- Berger, A. D., and Blakeslee, A. F., chromosome ends in *Datura pruinosa*, III, 367.
- Berg, H. L. See Strickroot, F. L.
- Bergold, G. See Duspiva, F., and Trurnit, H. J.
- Bergstermann, H., stimulation of formation of additive compounds between bases and phenol derivatives by lipid solvent, I, 259.
- Bergstrom, B. See Adler, Erich.
- Bergstrom, S., oxidation of cholesterol and other unsaturated sterols in colloidal aqueous solution by molecular oxygen, II, 374.
- and Wintersteiner, O., autoxidation of sterols in colloidal aqueous solution. III. Quantitative studies on cholesterol. IV. Influence of esterification and of constitutional factors, II, 13.
- See also Theorell, H.
- Bergstrom, F. W. See White, H. C.
- Beringer, R., angular correlation of successive γ -rays, I, 111.
- Berinzaghi, B., Deulofeu, V., Labriola, R., and Muruzabal, A., alkoxy exchange by γ -alkoxyquinoline derivatives in alcoholic alkali, II, 338.
- Berk, B., and Brown, O. W., catalytic activity of intermetallic compounds in vapour-phase reduction of nitrobenzene. II, I, 94.
- See also Goldfarb, A. R.
- Berk, J. E., Rehfuss, M. E., and Thomas, J. E., duodenal bulb acidity under fasting conditions in patients with duodenal ulcer, III, 35. Effect of gastric hypersecretion on reaction and neutralising ability of contents of first part of duodenum in normal dogs, III, 123. Acidity of "ulcer-bearing area" of duodenum in normal persons, III, 124. Acid factor in duodenal ulcer as evaluated by acidity and neutralising ability in duodenal bulb, III, 177. Effect of ulcer on acidity and neutralising ability in duodenal bulb, III, 327. *In situ* effects of antacids in duodenal ulcer, III, 892.
- Berk, L., aspects of auricular fibrillation, III, 90. Cardiac dyspnoea, III, 871.
- Berk, L. H., radiological diagnosis of coronary thrombosis, III, 90.
- Berkelhamer, L. H., fluorescent microscope lamp, I, 43. Dehydration study of clays, I, 212.
- Berkenheim, A. M., and Antik, L. V., reaction between halogen derivatives of 6-methoxyquinoline and alkoxides, II, 104. and Spasokukotski, N. S., condensation of 8-hydroxy-6-methoxyquinoline with γ -halogeno- α -diethylaminopropane, II, 104.
- Berkey, S. R. See Mishulow, L.
- Berkman, S., accessory growth factor requirements of *Pasteurella*, III, 356.
- See also Bass, A.
- Berkson, R. S. See Osgood, H.
- Berkwitz, N. J., treatment of delirium tremens, with faradic shocks, III, 99.
- Berl, W. G., reversible oxygen electrode, I, 258.
- Berlin, A. A. See Rutovski, E. N.
- Berlin, A. S. See Skinner, G. S.
- Berlin, I. See Lyons, W. R.
- Berlin, T., and Fajans, K., nature of covalent binding, I, 32.
- See also Fajans, K.
- Berliner, E., cyclisation reactions, II, 141.
- Berliner, F. See Mayer-Gross, W.
- Berliner, R. W. See Perera, G. A.
- Berlowe, M. L., inhibition of painful breast engorgement in puerperium with stilboestrol, III, 172.
- Berman, A. L., Snapp, E. F., Atkinson, A. J., and Ivy, A. C., effect of cinchophen on bile formation, III, 655.
- See also Ivy, A. C.
- Berman, H. See Palache, C.
- Berman, L., and Riess, B., effect of insulin shock on learning in white rat, III, 15.
- Berman, R. A. See Talbot, N. B.
- Berman, S., symposium on sciatica, III, 97. See also Greenberg, B. E.
- Bern, H. See Allen, B. M.
- Bernardini, G., anomalous absorption in air and life of the meson, I, 270.
- Bernert, T. See Karlik, B.
- Bernhard, A., and Rosen, M. J., distribution of diastase in serum, plasma, whole blood, and red blood cells, III, 628.
- Bernhard, C. G., temporal sequence of component potentials in frog's retina and electronic potential in optic nerve, III, 314. Negative component PIII in retinogram of tortoise, III, 315.
- and Granit, R., stimulus frequency as means of analysing synaptic activity, III, 794.
- and Skoglund, C. R., selective suppression with ethyl alcohol of inhibition in optic nerve and of the negative component PIII of the electroretinogram, III, 314.
- Bernhard, K., chemical embryology; lipin syntheses in chick embryo, III, 26.
- and Bullet, F., investigation of fat metabolism with deuterium as indicator. II. Oleic acid from carbohydrates, III, 904.
- Bullet, F., and Steinhauser, H., investigation of fat metabolism with deuterium as indicator. I. Essential fatty acids, III, 260.
- Bernhart, F. W., and Skeggs, L., iron content of crystalline human haemoglobin, III, 371.
- Bernhauer, K., Iglauder, A., Knobloch, H., and Zippelius, O., production of acid from sugar by *Aspergillus niger*. VIII. Effect of magnesium, III, 685.
- and Knobloch, H., oxidations by acetic acid bacteria. VI. Production of carboxylic derivatives of reducing sugars and of 2-ketogluconic acid, III, 687.
- Bernheim, A. I. See Penner, A.
- Bernheim, A. R. See Shorr, E.
- Bernheim, F., effect of substances on oxygen uptake of *Blastomyces dermatitidis*, III, 355.
- and Bernheim, M. I. C., conjugation *in vitro* of phenol by guinea-pig liver, III, 909.
- See also Handler, P.
- Bernheim, M. I. C. See Bernheim, F.
- Bernheimer, A. W., Gillman, W., Hottle, G. A., and Pappenheimer, A. M., cultivation of haemolytic streptococcus, III, 284.
- and Pappenheimer, A. M., massive growth of group A haemolytic streptococcus, III, 284.
- Bernkopf, H. See Kligler, I. J.
- Bernstein, A. O. See Himwich, H. E.
- Bernstein, C. See Price, C. C.
- Bernstein, C., jun., See Saul, L. J.
- Bernstein, M., and Chesluk, H. M., surface area of human erythrocyte, III, 4.
- De Winn, E. B., and Sinkins, S., heart disease and liver function, III, 91.
- Bernton, H. S., Spies, J. R., and Stevens, H., multiplicity of allergens and reagins in cottonseed sensitiveness, III, 70.
- See also Spies, J. R.
- Berousek, E. R., breeding efficiency of dairy bulls used artificially and naturally, III, 480.
- Berridge, N. J., pure crystalline rennin, III, 427.
- Berry, G. P. See Brooks, A. N., and Syverton, J. T.
- Berry, H. W., ionisation of gases by collisions of their own accelerated molecules, I, 51.
- Berry, M. A. See Stonehill, H. I.
- Berryman, G. H., and Chatfield, C., calculating nutritive value of diets, III, 494.
- See also McVicar, R. W., and Schlotthauer, C. F.
- Bersack, S. R., Hodgkin's disease, III, 820.
- Bersin, T., preparative organic chemistry. II. Reduction and oxidation, II, 317.
- Berstein, A. See Parsonnet, A. E.
- Berta, L. See Benard, M.
- Bertrand, D., influence of trace element vanadium on *Aspergillus niger*, III, 274.
- Bertrand, G., and Brooks, G., yield of furfur-aldehyde from lignified tissues, III, 219.
- Bessey, O. A., and White, R. L., ascorbic acid requirements of children, III, 256.
- See also Swank, R. L.
- Best, C. E. See Fuson, R. C.
- Best, C. H. See Solandt, D. Y.
- Best, R. J. See Morton, A. A.
- Beste, L. F. See Thiessen, G. W.
- Bethell, F. H., Sturgis, C. C., Hettig, R. A., and Mallory, O. T., jun., blood, III, 710, 861.
- See also Swendseid, M. E., and Turkel, H.
- Bethke, R. M. See Edgington, B. H., and Hunt, C. H.
- Betti, M., and Lucchi, E., change of d- into meso-tartaric acid by pancreas, III, 769.
- Beets, E. A. See Hunt, W. T.
- Beuk, J. F. See Russell, W. C.
- Beumer, J. See Bordet, P.
- Beutel, R. H. See Stevens, J. R.
- Beutler, H. G. See Pomerance, H. S.
- Bevan, A., industrial limestones in Virginia, I, 324.
- Beveridge, W. I. B. See Burnet, F. M.
- Beveridge, W. J. M., Kahn verification test, III, 693.
- Beyer, G. F., spectrophotometric determination of Lovibond number in brown Lovibond glasses series No. 52, Brewer's scale, I, 186.
- Beyer, G. L., and Rieman, W., 3rd, solubility product of barium chromate, I, 198.
- Beyer, H., and Fritsch, H., synthesis of anthracene-9:10-dicarboxylic acid, II, 368.
- and Schulze, H., Friedel-Crafts reaction of lactones. III. Dehydrogenations with aluminium chloride, II, 301.
- Beyer, K. H., ascorbic acid-dehydroascorbic acid system in synthesis and inactivation of sympathomimetic amines, II, 158. Relation of molecular configuration to inactivation of sympathomimetic amines in presence of phenol oxidase, III, 585.
- Beyer, W., significance of parathyroid glands and their diseases, III, 22.
- Bezard, A. von. See Wacek, A. von.
- Bezler, R., Zeeman effect of spectrum of singly ionised argon in fields of 55,000 gauss, I, 213.
- Beznak, M., and Korényi, Z., effect of deoxycorticosterone acetate on hypertrophy of adrenals caused by exercise, III, 736.

- Bezzi, S.**, and Croatto, *U*, structure of *p*-dibromobenzene as determined by Fourier analysis, I, 195.
- Bhabha, H. J.**, and Basu, *D.*, theory of particles of spin half and the Compton effect, I, 189.
- and Chakrabarty, *S. K.*, cascade theory with collision loss, I, 215.
- Bhagavantam, S.**, photo-elastic effect in crystals, I, 147.
- and Narayana, *J. V.*, scattering of light in single-crystals, I, 147.
- Bhagvat, K.** See *Sarma, P. S.*
- Bhagwat, W. V.**, and Toshniwal, *P. M.*, application of Hammick and Andrew's formula for determining the parachor of a solute, I, 87. Behaviour of mercuric chloride and determination of its parachor, I, 224.
- Varma, M.**, and Hermalkar, *H. G.*, solubilities of weak acids in salts of weak acids, I, 59.
- See also *Deshapande, S. S.*
- Bhar, J. N.**, decomposition of potassium iodide by ultrasonic waves, I, 206.
- Bhargava, P. N.**, and Dutt, *S.*, seeds of *Alangium lamarkii*, Thwaites; isolation of alangol, II, 211.
- Bhat, R. V.**, *Gavankar, (Miss) K. D.*, and Venkataraman, *K.*, naphthol AS series. VII. Synthetic experiments. IV. 2-Hydroxy-3-naphthoyl derivatives of aminoanthraquinones, II, 39.
- Bhatt, B. L.**, and Nargund, *K. S.*, condensation of methylsuccinic anhydride with tolyl methyl ethers, II, 134.
- Bhattacharya, G. N.**, dipole moments of palmitic acid, aleuritic acid, and alkyl esters of aleuritic acid, I, 249.
- Bhattacharyya, S. K.**, *Kar, K. R.*, and *Sur, A. R.*, photochemical reactions between ammonium molybdate and various organic reducing agents in [light of] wave-length 366 $\mu\mu$, I, 232.
- and *Sur, A. R.*, reduction of ammonium molybdate by sodium hydrogen *l*-ascorbate in the dark, I, 231.
- See also *Ghosh, J. C.*
- Bhawe, S. D.** See *Gokhale, S. D.*
- Bhide, B. V.** See *Phalnikar, N. L.*, *Sathe, N. V.*, and *Walvekar, S. P.*
- Bhide, N. V.**, and *Sahasrabudhe, D. L.*, comparative hydrolysis of proteins from food grains, III, 427.
- Bhisse, P. B.** See *Kauschal, R.*
- Biale, J. B.**, periodicity in transpiration of lemon cuttings under constant environmental conditions, III, 536.
- and *Shepherd, A. D.*, identification of acetaldehyde among the volatile products of citrus fruits, III, 700.
- Bianchi, E.** See *Caglioti, V.*, and *Giacomello, G.*
- Bicher, L. B.**, *jun.*, and *Katz, D. L.*, viscosity of methane-propane system, I, 254.
- Bick, E. M.**, local application of sulphonamides, III, 135.
- Bick, M.**, preparation and uses of human serum, III, 787.
- See also *Jakobowicz, R.*
- Bickel, A.**, liver-glycogen and oxidative processes in intermediate metabolism when dietary proteins are replaced by amino-acids and their mixture, III, 827.
- and *Parlow, A.*, effect of pure proteins of potato and green bean on urinary quotient C:N and vacat O:N, and on glycogen content of liver, III, 669.
- Bickel, G.**, and *Dicker, S.*, haemorrhagic purpura in Graves' disease, III, 159.
- Bickers, W.**, [treatment of] primary dysmenorrhoea, III, 479.
- Bickoff, E.**, and *Williams, K. T.*, determination of carotene in vegetable oils without saponification, III, 575.
- Biddle, E. S.** See *Kakavas, J. C.*
- Bidelman, W. P.**, presence of potassium hydride lines in spectrum of the solar disc, I, 114.
- Bieber, I.**, and *Tarachow, S.*, autonomic symptoms in psychoneurotics, III, 101.
- Biefeld, L. P.**, and *Griffing, M.*, colour nomenclature in qualitative analysis. II. ISCC-NBS colour names, I, 101.
- Biegner, J. E.** See *Schwob, C.*
- Bielby, J.** See *Fisher, H.*
- Bier, O.**, and *Trapp, E.*, normal reagin of Wassermann type in animal sera, III, 776.
- Bierbaum, O.** See *MacBryde, C. M.*
- Bieren, R. E.**, carcinoma of lower intestinal tract, III, 820.
- Bierman, W.** See *Schwartzman, G.*
- Bieste, A.** See *Leichsenring, J. M.*
- Bigeleisen, J.** See *Lewis, G. N.*
- Bigelow, W. G.**, frost-bite, III, 379.
- Bigger, J. W.**, and *Hodgson, G. A.*, sulphonamides in impetigo contagiosa, III, 906.
- and *Nelson, J. H.*, metabolism of coliform bacilli in distilled water, III, 919.
- Biggers, E. D.** See *Reedy, J. H.*
- Biggs, A. D.** See *Llewellyn, J. S.*
- Biggs, C. L.** See *Graydon, J. J.*, and *Morgan, F. G.*
- Biggs, N. B.**, distillation receiver for use with Tate and Warren apparatus, I, 186.
- Bikova, V. S.**, chemical composition of the Lovozero loparite, and its analysis, I, 105.
- Biller, S. B.** See *Spark, C.*
- Billig, O.**, and *Sullivan, D. J.*, personality structure and prognosis of alcohol addiction: a Rorschach study, III, 639.
- Billings, M. P.**, structure and metamorphism in Mount Washington Area, New Hampshire, I, 292.
- Billman, J. H.**, and *Cleland, (Miss) E. S.*, preparation of dithizone (diphenyl-thiocarbazone), II, 324.
- and *Hidey, P. H.*, *NN'*-substituted α -amino-diphenylacetamides, II, 262.
- and *Parker, E. E.*, amino-acids. I. Glycine, II, 253.
- Radice, A.**, and *Mundy, B. W.*, alkylation of amines. I, II, 127.
- Billmeyer, F. W.**, *jun.* See *Lucas, H. J.*
- Biltz, W.** See *Faller, F. E.*
- Bina, A. F.**, *Thomas, J. M.*, and *Brown, E. B.*, determination of vitamin-B₆ (pyridoxine) in foods, III, 577.
- Binford, C. H.**, stand for holding donor bottle in inverted position, III, 780.
- Bing, R.**, diagnostic significance of rise of intracranial pressures, III, 164.
- Bingham, J. B.**, *Meyer, O. O.*, and *Howard, B.*, haemorrhagic agent 3:3'-methylenebis-(4-hydroxycoumarin), III, 457.
- Bingham, (Lady).** See under *Bingham, K.*
- Bingham, K.** See *Mackay, H. M. M.*, and *Wills, L.*
- Binkley, R. W.**, neglected adenomata of thyroid, III, 320.
- Biocca, E.**, effect of venom of *Crotalus terrificus terrificus*, and its neurotoxic and haemolytic fraction, on chicken embryo, III, 766.
- Birch, C. A.**, sulphapyridine in Pfeiffer's bacillus meningitis, III, 508.
- Birch, F.**, elasticity of igneous rocks at high temperatures and pressures, I, 291.
- Birch, F. M.**, and *Lucas, A. M.*, effects of centrifugation on intranuclear inclusions produced by subcutaneous injections of aluminium oxide, III, 785.
- Bircumshaw, L. L.**, and *Everdell, M. H.*, kinetics of reaction between copper and iodine in aqueous (potassium iodide) solution. I, I, 20.
- Bird, C. E.**, recent advances in surgery of oesophagus, III, 244.
- Bird, F. H.**, *Kratzer, F. H.*, *Asmundson, V. S.*, and *Lepkovsky, S.*, pyridoxine deficiency in turkeys, III, 754.
- Bird, H. M.**, *Kilner, S. D.*, and *Martin, D. J.*, post-operative respiratory complications in service cases, III, 633.
- Bird, J. C.**, ultra-violet absorption of surface anaesthetics, III, 140.
- Bird, M. L.**, *Hughes, E. D.*, and *Ingold, C. K.*, reaction between alkyl halides and hydroxylic solvents. III. Reactions of *n*-butyl bromide, I, 231.
- Bird, R. M.**, *McSwain, B.*, *Kauer, G. L., jun.*, and *Glenn, F.*, clotting action of rabbit-clotting globulin, III, 625.
- See *Kauer, G. L., jun.*
- Bird, R. M., jun.** See *Blackford, S. D.*
- Birdsell, C. M.** See *Harned, H. S.*
- Birge, R. T.**, probable accuracy of the general physical constants, I, 196.
- Birkeland, J. M.** See *Green, T. W.*
- Birkhauser, H.**, choline-esterase and female sex hormones, III, 649. Choline-esterase and mono-amino oxidase in human brain, III, 726.
- Birkinshaw, J. H.**, and *Raistrick, H.*, notatin: antibacterial glucose aerodehydrogenase from *Penicillium notatum*, Westling, III, 686.
- Raistrick, H.**, and *Smith, G.*, biochemistry of micro-organisms. LXXI. Fumaryl-*dl*-alanine (fumaromono-*dl*-alanide), a metabolic product of *Penicillium resticulosum*, sp. nov., III, 59.
- See also *Coulthard, C. E.*
- Birkofler, L.** See *Kuhn, R.*, and *Moller, E. F.*
- Birmingham, L.**, boundaries of differentiation of cephalic imaginal discs in *Drosophila*, III, 619.
- Birnbaum, G. L.**, and *Thompson, S. A.*, resuscitation in advanced asphyxia, III, 95.
- See also *Thompson, S. A.*
- Birnberg, C. H.** See *Kurzrok, L.*, and *Weber, H. W.*
- Birnberg, V. J.**, and *Hansen, A. E.*, thrombo-phlebitis migrans, III, 231.
- Birren, F.**, colour technique in industry, III, 641.
- Birtwell, S.** See *Hodgson, H. H.*
- Birus, K.**, *Möglich, F.*, and *Rompe, R.*, crystalline phosphors and insulators, I, 271.
- Bischler, A.** See *Frommel, E.*
- Bischoff, F. von**, reactions of solid substances. CXXVIII. Influence of foreign gases on thermal decomposition of calcium sulphate in presence of silica, I, 94.
- Bischoff, Fritz**, [supposed] reversible inactivation of prolan, III, 113. Reaction of chorionic gonadotropin with phenyl isocyanate, III, 740.
- Clarke, G. J.**, and *Rupp, J. J.*, endocrine factors influencing tumour development; administration of gonadotropins at early cancer age to mice, III, 25.
- and *Ingraham, L. P.*, influence of antagonism phenomenon on mammary gland development, III, 32.
- Ingraham, L. P.*, and *Rupp, J. J.*, influence of vitamin-B₆ and pantothenic acid on growth of sarcoma 180, III, 659.
- Bisgard, J. D.**, *Matson, G. M.*, and *Hirschmann, J.*, temperature and gastro-intestinal motor activity, III, 124.
- and *Musselman, M. M.*, scoliosis; experimental production and growth correction; growth and fusion of vertebral bodies, III, 365.
- and *Nye, D.*, influence of hot and cold application on gastric and intestinal motor activity, III, 328.
- Bishop, A.**, chemotherapy and avian malaria, III, 50.
- Bishop, D. W.**, spermatocyte chromosome aberrations in grasshoppers subjected to X-radiation during embryonic stages, III, 155. Germ cell studies in male fox (*Vulpes fulva*), III, 542. Respiration of silver fox sperm, III, 890.
- Bishop, H. F.**, and *Rudder, F. F.*, intravenous anaesthesia, III, 588.
- Bishop, J. W.** See *Lister, A.*
- Bishop, W. E.**, *Anson, B. J.*, and *Ashley, F. L.*, anatomy of region of obturator hernia, III, 77.
- See also *Carr, B. W.*
- Biskind, G. R.** See *Biskind, M. S.*, and *Groper, M. J.*

- Biskind, M. S., vasomotor reactions persisting for twenty years in man: treatment with androgens, III, 34. Nutritional deficiency in aetiology of menorrhagia, metrorrhagia, cystic mastitis, and premenstrual tension; treatment with vitamin-B complex, III, 648.
- and Biskind, G. R., effect of vitamin-B complex deficiency on inactivation of oestrone in liver, III, 31. Inactivation of testosterone propionate in liver during vitamin-B complex deficiency; alteration of oestrogen-androgen equilibrium, III, 563.
- and Falk, H. C., nutritional therapy of infertility in male, with reference to vitamin-B complex and -E, III, 651.
- See also Shelesnyak, M. C.
- Bissegger, A. See Zeller, E. A.
- Bissell, H. J., organic content of cores from Gulf of Mexico off Mississippi delta, I, 322.
- Biswas, B. N., application of photon statistics to specific heat of a monatomic solid, I, 273.
- Biswas, H. G., and Das-Gupta, S. J., chlorination of benzoic acid, II, 231.
- Bittel, H., effect of elastic compression on susceptibility maximum of nickel; characteristic strains, I, 223.
- Bitter, F., scientific significance of ferromagnetism, I, 301.
- Bittner, H. W. See Blanchard, E. R.
- Bittner, J. J., milk-influence of breast tumours in mice, III, 39. Genetics of susceptibility for development of mammary cancer in mice, III, 183. Possible relationship of oestrogenic hormones, genetic susceptibility, and milk influence in production of mammary cancer in mice, III, 402. Possible types of mammary gland tumours in mice, III, 489.
- Björling, C. O., crystal structure of potassium hydroxystannate and related compounds, I, 145.
- Björnstähl, Y., ellipsoid method of determining dielectric constants, I, 26.
- Black, A., and Swift, R. W., critical temperature of the albino rat as affected by feeding, III, 413.
- See also Greene, R. D., and Voris, Le R.
- Black, C. E., commercial lead as possible inciting factor in bronchiogenic carcinoma, III, 492.
- Black, D. A. K., azotæmia in gastro-duodenal haemorrhage, III, 395.
- McCance, R. A., and Young, N. F., function of kidney in dehydration, III, 180.
- Black, E. C., eyes of the worker, III, 17.
- Black, J. F., and Taylor, H. S., equilibrium in hydrogen-water systems containing tritium, I, 307.
- Black, L. A. See Bartram, M. T., and Pelczar, M. J., jun.
- Black N. M. See Leinfelder, P. J.
- Black, O. D., and Garrett, A. B., activity coefficients of thallous chloride in ethylene glycol-water solutions, I, 227.
- Black-Schaffer, B. See Rosahn, P. D.
- Blackburn, K. B. See Harrison, J. W. H.
- Blackfan, K. D. See May, C. D.
- Blackford, J. M., and Allen, H. E., deaths from bleeding peptic ulcers, III, 564.
- Blackford, S. D., Bird, R. M., jun., and Casscells, S. W., non-operative results in 90 patients with abnormal cholecystograms, III, 179.
- Blackman, M., relation of Debye theory and lattice theory of specific heats, I, 56.
- Blackmon, G. H., nitrogen content of dormant pecan twigs, III, 613.
- Blackstone, C. H. See Stadler, H. E.
- Blackwelder, E., crystallisation of salt as a factor in rock weathering, I, 324.
- Blackwood, W., and Russell, H., experiments in immersion foot, III, 720.
- See also Ungley, C. C.
- Blades, B., lobectomy for bronchiectasis, III,
- Blaedel, W. J., Ogg, R. A., jun., and Leighton, P. A., attempted detection of free hydroxyl as an intermediate in photochemical reactions, I, 40. Photo-oxidation of methyl iodide, I, 40.
- Blair, D. M., Davis, F., and Francis, E. T. B., conducting system of marsupial heart, III, 161.
- Blair, G. W. S., Cowie, A. T., and Folley, S. J., rheological properties of bovine cervical mucus, III, 114.
- Blair, J. E. See Kleiger, B.
- Blair, V. P., and Byars, L. T., current treatment of cancer of lip, III, 492.
- Blais, J. A., Laugier, H., and Robillard, E., measurement of depth of anaesthesia by studying the lingual-maxillary reflex, III, 587.
- Blake, E. S., reaction of carbon disulphide with amine sulphides, II, 343.
- Blake, F. G., and Craige, B., penicillin in suppurative disease of lungs, III, 905.
- Howard, M. E., and Tatlock, H., feline virus pneumonia and its possible relation to cases of primary atypical pneumonia in man, III, 696.
- Blake, M. A., acidity and tannin content of mature peach fruits, III, 539.
- and Davidson, O. W., acidity and catechol tannin studies in peach fruit, III, 535.
- Blakeslee, A. F. See Bergner, A. D.
- Blalock, A., effect of lowering temperature of injured extremity to which tourniquet has been applied, III, 378.
- See also Cressman, R. D., and Wood, G. O.
- Blanc-Lapierre, A. See Bruhat, G.
- Blanchard, E. R., and Bittner, H. W., non-fouling hydrogen liquefier, I, 25.
- Blanchard, E. W., Stuart, A. H., and Tallman, R. C., new series of synthetic oestrogenic substances, III, 810.
- Blanchard, K. C. See Shepherd, R. G.
- Blanchard, R., leached derivatives of arsenopyrite and chromite, I, 171.
- and Hall, G., rock deformation and mineralisation at Mount Isa, I, 75.
- Blanck, E. E., carbohydride metabolism in thyrotoxicosis, I, III, 321.
- Blangey, L., Fierz-David, H. E., and Stamm, G., sulphonation of benzylethylaniline, II, 87.
- Blank, E. W., detection of ferrocyanide ion with quinone chloroimide, I, 101. Reversible chromatic thermosensitivity, I, 262.
- See also Van Zile, B. S.
- Blank, H. S., improved routine tissue staining technique for formalin-fixed tissues, III, 80.
- Blank, I. H. See Lane, C. G.
- Blankenhorn, M. A. See Bean, W. B.
- Blankstein, S. S. See Enzer, N.
- Blanter, M. E., apparatus for studying transformations in alloys by means of electric resistance, I, 319.
- Blaschko, H., activity of L(-)-dopa decarboxylase, III, 201.
- Blatherwick, N. R. See Ewing, M. E.
- Blatt, M. L., Steigmann, F., and Dyniewicz, J. M., phenolphthalein tolerance in childhood, III, 910.
- See also Rubens, E.
- Blatt, N. See Cope, O.
- Blattner, R. J., and Cooke, J. V., use of egg protection test for recognition of St. Louis encephalitis in man, III, 288.
- and Heys, F. M., experimental transmission of St. Louis encephalitis to mice by *Dermacentor variabilis*, III, 695.
- Blauner, S. A. See Klinger, L. H.
- Blaixland, A. J., fatal phosphorus poisoning from explosive bullet, III, 515.
- Bless, A. A. See Romanoff, A. L.
- Bleuler, K., and Weigle, J., diffraction of X-rays by thermal waves, I, 194.
- See also Bonnelance, L.
- Bleyer, B., and Schloemer, A., behaviour of lactose in alkaline solution, IV, II, 321.
- Blick, P., Berardi, J. B., and Wozasek, O., laxative action of phenolphthalein, III, 137.
- Bliss, A. D., analysis and age of monazite from Deer Park No. 5 mine, Spruce Pine, N. Carolina, I, 211.
- Bliss, A. F., derived photosensitive pigments from invertebrate eyes, III, 471.
- Blitz, D., urticaria of emotional origin, III, 162.
- Blizniukov, V. I. See Valjaschko, N. A.
- Bloch, E. See Schwenk, E., and Sobotka, H.
- Bloch, H., specificity of inhibitor in esterase inhibition by tri-o-tolyl phosphate, III, 769. See also Hottinger, A.
- Bloch, H. I. See De Bodo, R. C.
- Bloch, I., theory of interchange of metabolites between capillaries and tissues, III, 461. See also Williamson, R. R.
- Bloch, K., relation of bacteriophages and viruses, III, 528.
- Berg, B. N., and Rittenberg, D., biological conversion of cholesterol into cholic acid, III, 905.
- and Rittenberg, D., deuteriocholesterol, II, 331. Utilisation of acetic acid for cholesterol formation, III, 132.
- Bloch, W., effect of hypothalamus on metabolic rate, III, 873.
- Blochin, M. A. See Borovski, I. B.
- Block, F. B., urinary incontinence, III, 398.
- Block, P., jun., and Powell, G., iodination of tyrosine by iodine monochloride, II, 327.
- Block, R. J., separation of basic amino-acids from protein hydrolysates, III, 363.
- Block, W. D., and Buchanan, O. H., micro-determination of gold in biological tissues, III, 220.
- Buchanan, O. H., and Freyberg, R. H., metabolism, toxicity, and manner of action of gold compounds used in treatment of arthritis; absorption, distribution, and excretion of gold following intramuscular injection of gold thioglucose and gold calcium thiomalate, III, 514.
- See also Murrill, W. A.
- Blohm, C. L. See Alles, G. A.
- Bloomfield, D. M., prickly heat, III, 487.
- Blomquist, J. H., and France, W. G., adsorption at crystal-solution interface. XIII. Electron diffraction investigation of crystal surfaces of pure sodium bromate and sodium bromate with adsorbed dyes, I, 124.
- Blond, K., aetiology of toxæmic syndrome of pregnancy, III, 118.
- Bloom, A. R., and Rosenzweig, J., right-sided aortic arch, III, 221.
- Bloom, E. See Sullivan, R. A.
- Bloom, F., structure and histogenesis of tumours of aortic bodies in dogs, III, 820.
- Bloom, N., and Policoft, L. D., bundle branch block, III, 460.
- See also Markham, J. D.
- Bloomfield, A. L., and Lew, W., significance of *Salmonella* in ulcerative cæcitis of rats, III, 330. Prevention by succinylsulphathiazole of ulcerative cæcitis in rats, III, 341. Prevention of infectious ulcerative cæcitis in young rats by chemotherapy of mother, III, 508. Increased resistance to ulcerative cæcitis of rats on diet deficient in vitamin-B complex, III, 575.
- Bloomfield, G. F., rubber, polyisoprenes, and allied compounds. IV. Relative tendencies towards substitutive and additive reaction during chlorination, II, 289.
- Bloor, W. R., role of fat in diet, III, 405.
- See also Williams, C. H.
- Blotner, H., inheritance of diabetes insipidus, III, 156.
- Blout, E. R., and Elderfield, R. C., lactones related to the cardiac aglycones. XI. Synthesis of β -substituted Δ^{ab} -butenolides from methyl ketones, II, 191.
- Elderfield, R. C., and Fried, J., lactones related to the cardiac aglycones. XII. Condensation of ethyl oxalate with ethyl γ -cyclohexylcrotonate and predicting the products from such condensations.
- See also Woodward, R. B.
- Bludau, H. H. See Hüttig, G.

- Blue, J. H., and Lafferty, C. R., perirenal lipoma, III, 333.
- Bluefarb, S. M. See Director, W.
- Bluestein, B. A. See Brown, W. G.
- Blum, F., distribution of goitrogenic substances in vegetables and susceptibility of animals, III, 882.
- Blum, H., use of dihydrotachysterol (A.T. 10), III, 806.
- Blum, H. B., and Fabian, F. W., spice oils and their components for controlling microbial surface growth, III, 846.
- See also Fabian, F. W.
- Blum, H. T., effect of intensity on tumour induction by ultra-violet radiation, III, 748. Wave-length dependence of tumour induction by ultra-violet radiation, III, 748. Tumour development illustrated by studies with ultra-violet radiation, III, 748.
- Grady, H. G., and Kirby-Smith, J. S., limits of accuracy in experimental carcinogenesis as exemplified by tumour induction with ultra-violet radiation, III, 182. Relationship between dosage and rate of tumour induction by ultra-violet radiation, III, 182.
- and Lippincott, S. W., carcinogenic effectiveness of ultra-violet radiation of wave-length 2537 Å, III, 250.
- See also Grady, H. G., and Lippincott, S. W.
- Blum, K., treatment of herpes zoster, III, 837.
- Blumberg, H., and Grady, H. G., production of cirrhosis of liver in rats by feeding low-protein, high-fat diets, III, 397.
- Blumberg, N., Heine, W. T., and Lipshutz, J., sulphonamides in pneumococcal endocarditis, III, 582.
- Blumenfeld, C. M., comparison of periodic mitotic activity in epidermis, renal cortex, and submaxillary salivary gland of the albino rat, III, 80. Rate of periodicity of mitotic activity of experimental epidermoid carcinoma in mice, III, 659.
- Blumenfeld, G., syntheses in phenanthrene series, II, 366.
- Blumenthal, H. T., influence of weight, diet, and dosage on response of thyroid and parathyroid glands of male guinea-pig to potassium iodide; effect of this substance on adrenal, III, 22.
- Blumenthal, J. S., histaminase in treatment of urticaria of pregnancy, III, 611.
- Blumgart, H. L. See White, P. D.
- Blumstein, G. I. See Tuft, L.
- Blyth, W., pitressin diagnosis of idiopathic epilepsy, III, 384. Pseudocyesis simulated in male, III, 888.
- Boals, R. T. See Chunn, C. F., and Harkins, H. N.
- Boardman, W. W. See Eversole, W. G.
- Boas, E. P. See Levy, H.
- Boialek, E. G. See Kanning, E. W.
- Bobey, M. E., and Price, J. W., determination of diodrast in whole blood, III, 304.
- Bobolev, V. K., and Leipunski, O. I., mutarotation of glucose under pressure, I, 158.
- Bobrovnikoff, N. T., physical theory of comets in light of spectroscopic data, I, 174.
- Bobtelsky, M., and Simchen, A. E., catalysts for peroxide decomposition, I, 65.
- Bocciaelli, D. See Amaldi, E.
- Bock, J. C., clinical micro-method for determination of blood-urea, III, 88. [with Kordecki, F. A.], micro-determination of urea-nitrogen, II, 51.
- Bock, R. See Fischer, W.
- Bock, R. O. See Collins, J. R.
- Bockmühl, M. See Lautenschläger, C. L.
- Bodansky, O. See Lewis, J. M.
- Bode, O. B. See Flowerdew, R. E.
- Bodenheimer, M. See Casten, D.
- Bodenstein, J. C., determination of cantharidin in beetles and native medicines, III, 856.
- Bodenstein, M., photochemistry of mixtures of hydrogen and chlorine through a century, I, 133. Reactions of hydroxylamine and the catalytic oxidation of ammonia, I, 281.
- Bodian, D., diencephalon of opossum. III. Thalamo-cortical projection, III, 637. See also Howe, H. A.
- Bodily, H. L., Corey, M., and Eaton, M. D., precipitation and concentration of influenza virus with alum, III, 851.
- Bodin, M. A., ferrocyanidometric determination of iron, I, 236.
- Bodine, J. H. See Allen, T. H.
- Bodkin, M. L., relation of food constituents to intestinal flora [and non-specific ulcerative colitis], III, 178.
- Bodnar, J., and Tanko, B., phosphorylation of glycogen in muscle and organs, III, 683.
- Bodrova, A. A. See Rochlina, M. L.
- Boehm, G., photodynamic effects in presence of ascorbic acid, III, 754.
- Böhme, H. See Appel, H.
- Böhme, H., influence of oxygen and sulphur atoms on the velocity of hydrolysis of the carbon-halogen bond, I, 310.
- Pfeiffer, H., and Schneider, E., dimeric thioketones, II, 16.
- Böhmisch, A. W. See Wagner, Hans.
- Boehringer, F., wound treatment with chlorophyll ointment, III, 679.
- Bömmels, N., nutritional value of food preserves, III, 750.
- Boning, P., theory of insulators, I, 298.
- Boerer, J. J., Stanford, C. E., and Ryan, E., experimental riboflavin deficiency in man, III, 499.
- Boerner, F., centrifugal micro-filter, I, 139.
- Boersch, H., improvement in resolving power in emission electron microscope, I, 26. Calculation of Debye-Scherrer diagrams of small crystals by gas-interference method, I, 53. Effect of crystal lattice interferences on image produced by electron microscope, I, 72. Diffraction experiments with very fine electron beams, I, 221.
- Boettcher, A., preparation of thermally stable carrier-films for determining lattice constants of alloys by electron diffraction, I, 139.
- Bogan, E. J., and Moyer, H. V., agar-agar as coagulant for barium sulphate, I, 100.
- Bogart, M. J. P. See Brunjes, A. S.
- Bogdanov, K. A., condensers with intensive cooling, I, 321.
- Bogen, E., tuberculin tests in guinea-pigs with purified protein derivative, III, 358. Alcohol and tuberculosis, III, 590.
- Bogen, H. G., the Höfler "specific permeability series." II. Urea and glycerol, III, 72.
- Bogert, M. T. See Brody, F., Levitz, M., Linsker, F., and Masters, E. J.
- Bognár, R. See Zemplén, G.
- Bogojavlenski, A. N. See Rabinovitsch, A. J.
- Bogorodski, A. J., and Dezideriev, G. P., specific heat of concentrated aqueous lithium, sodium, and potassium chlorides, I, 11.
- Bohm, E., and Sturz, O., volumetric determination of chlorides by method of Votoček and Trtilek, I, 68.
- Bohonos, N., Hutchings, B. L., and Peterson, W. H., pyridoxine nutrition of lactic acid bacteria, III, 279.
- and Peterson, W. H., mould tissue. XVI. Isolation of fungus cerebrin from mycelium of *Aspergillus sydowi*, II, 315.
- Bohrod, M. G., three-dimensional visualisation of blood cells by oblique illumination, III, 453.
- Bohstedt, G. See Wegner, M. I.
- Bois, E., constitution of starch, II, 295. and Savary, J., amylases and sugars of *Ipomoea batatas* and *Solanum tuberosum*, III, 219.
- Boitschenko, E. A. See Vinogradov, A. P.
- Bojanovsky, R., iron requirement of a cellulose-splitting fungus and its relation to adsorption behaviour of ferrous ions, III, 203. Purification of fungus cultures by ionic selection, III, 203.
- Bojar, S. See Goldfarb, A. I.
- Bokil, K. V. See Patel, B. D.
- Boland, E. W., haemorrhagic diathesis in patients with jaundice [in relation to vitamin-K], III, 397.
- Boland, E. W., and Rooney, H. M., extensive generalised thrombo-phlebitis following eclampsia and Cæsarean section [use of heparin], III, 865.
- Bolas, B. D. See Goodall, D. W.
- Bolduan, O. E. A. See McBain, J. W.
- Bolen, H. L., blood pattern as clue to diagnosis of malignant disease, III, 185.
- Bolker, H. See Camiel, M. R.
- Bollenback, G. N. See Stavely, H. E.
- Bolliger, A., experimental production of pouch in male of *Trichosurus vulpecula*, III, 243. Spermatorrhœa in marsupials; action of sex hormones on spermatogenesis of *Trichosurus vulpecula*, III, 393.
- Bollmann, J. L., and Flock, E. V., phosphocreatine and inorganic phosphate in working and resting muscles of rats studied with radioactive phosphorus, III, 464.
- and Preston, F. W., experimental administration of dicoumarin, III, 547.
- See also Flock, E. V., and Schlotthauer, C. F.
- Bolstad, L., and Dunbar, R. E., vacuum distillation equipment for volatile solids, I, 267. Gas-absorption apparatus, I, 321.
- Bolton, B. See Livingston, P. C.
- Bolton, E. See Harrison, J. W. H.
- Bolz, A. See Wiberg, E.
- Bomke, H., vacuum spectroscopy, I, 165.
- Bomschatz, R. I. See Ostroumov, E. A.
- Bomskov, C., and Sladovic, L., isolation of thyrotropic hormone from anterior pituitary of whale, III, 737.
- Bona, G., and Rowe, R., suspension of glass thermometers, I, 165.
- Bond, D. D. See Rosenbluth, A.
- Bondi, A., jun. See Ehrlich, W. E., Flosdorf, E. W., and Kolmer, J. A.
- Bondy, P. K., and Altschule, M. D., action of furmethide (furfuryltrimethylammonium iodide) on cardiovascular system in man, III, 420.
- Bonebrake, H. E. See Ellis, P. M.
- Bonét-Maury, P., radio-biological research on size and structure of the herpetic virus, III, 851.
- Bongartz, H. See Fucks, W.
- Bonhoeffer, K. F. [with Beinert, H.], activation of passive iron in nitric acid, I, 233. and Renneberg, W., activity-waves in passive iron wires, I, 131.
- Bonime, R. G., effect of pregnant mare serum hormone on case of primary hypo-ovarianism, III, 32.
- Bonin, G. von. See Bailey, P.
- Bonnar, R. U., reproducibility of pH measurements with glass electrode hydrogen ion meters, I, 136.
- Bonnelance, L., and Bleuler, K., higher-order terms in diffraction of X-rays by crystals, I, 194.
- Bonnell, W. S. See Nelson, Elwood E.
- Bonner, D. M. See Went, F. W.
- Bonner, J. F. See Hodge, H. C.
- Bonner, J. F., jun. See Bale, W. F.
- Bonney, V., division of zygote producing trophoblast only, III, 706.
- Bonser, G. M., epithelial tumours of bladder in dogs induced by pure *B*-naphthylamine, III, 331. and Hawksley, L. M., interstitial-cell tumours of human testis, III, 899.
- Bonte, A., sedimentary origin of cone-in-cone structure, I, 104.
- Booher, L. E., Hewston, E. M., and Marsh, R. L., vitamin-A assays of plant tissues; potential sources of errors in sampling, III, 254.
- Book, M. H., inexpensive trimmer for paraffin blocks, III, 301.
- Boon, M. C. See Burk, D., and McEndy, D. P.
- Boorman, K. E., Dodd, B. E., and Mollison, P. L., clinical significance of Rh factor, III, 370.
- Boos, M. F., black beach sands of Guatemala, Central America, I, 322.
- Booth, A. N. See Wegner, M. I.
- Booth, H. S., and Martin, D. R., systems with boron trifluoride, I, 16.

- Booth, R. G.**, thermal decomposition of aneurin and cocarboxylase at varying pH, III, 901.
James, G. V., Marrack, J. R., Payne, W. W., and Wokes, F., ascorbic acid in meals at British restaurants, III, 502.
 See also **Barton-Wright, E. C.**
- Boothby, W. M., and Haines, S. F.**, value of oxygen and helium-oxygen mixtures before and after thyroideectomy, III, 763.
- Boppel, H.** See **Freudenberg, K.**
- Borasky, R.** See **Mitchell, J. W.**
- Borchers, R., Berg, C. P., and Whitman, N. E.**, tryptophan metabolism; effect of feeding *l*(-), *d*-, and *d*(+)-tryptophan, *d*(-)- and *d*- β -3-indolyl-lactic acid, β -3-indolylpyruvic acid, and *l*(-)-kynurenone on storage of liver-glycogen and urinary output of kynurenic acid, kynurenone, and total acetone bodies, III, 192.
- Borchers, W.** See **Schwaibold, J.**
- Borden, R. A.** See **Clayton, M. M.**
- Bordet, P., and Beumer, J.**, relation between reproduction of bacteriophage and formation of inhibitory substance by sensitive organism, III, 527.
- Bordley, J.** See **Eichna, L. W.**
- Borduas, A.** See **Selye, H.**
- Bordwell, F.** See **Arnold, R. T., and Suter, C. M.**
- Borg, A. F.** See **Ordal, E. J.**
- Borg, J. F.**, quinidine in prevention of sudden death, III, 586.
- Borg, R. E. van den**, investigation of pressure in tympanic cavity in school children and consequences of abnormal pressure for hearing, III, 555.
- Borgnis, F.**, measurement of dielectric constant and loss factor of dielectrics at a wave-length of 14 cm. with hollow resonators, I, 51.
- Borgstrom, E., and Koch, F. C.**, amorphous pepsin of higher activity than crystalline pepsin from commercial and crystalline pepsin, III, 843.
- Borkar, R. S.** See **Kanvinde, C. K.**
- Borkovic, E. J.** See **Looney, J. M.**
- Borman, E. K., Wheeler, K. M., West, D. E., and Mickle, F. L.**, salmonella typing in a public health laboratory, III, 357.
- Born, H. J., Timofeeff-Ressovsky, N. W., and Zimmer, K. G.**, biological applications of counter tube, III, 363.
- Born, M.**, effect of thermal vibrations on scattering of X-rays, III, I, 32. Thermodynamics of crystal lattices. I. Methods of calculation, I, 195.
- and **Bradburn, M.**, thermodynamics of crystal lattices. II. Calculation of lattice sums occurring in thermodynamics, I, 195.
- Bornstein, S.**, heterophile antibody reaction caused by bacterial infection, III, 62.
- and **Strauss, L.**, selective action of sulphanilylguanidine on different *Salmonella* types and its practical importance, III, 583.
- Borodina, O. J.** See **Michlin, D.**
- Borodulina, R.** See **Rabinovitsch, A. J.**
- Boroff, D. A., and Bullowa, J. G. M.**, destruction of sulphonamide inhibition present in sera by soil bacillus (Mirick), III, 356.
- Bullowa, J. G. M., and Cooper, A.**, inhibition of sulphapyridine by procaine in chest fluids after procaine anaesthesia, III, 581.
- Borovik, S. A.** See **Babaeva, A. V., and Miropolski, L. M.**
- Borovski, I. B., Blochin, M. A., and Grschibovskaja, L. A.**, X-ray analysis of rare elements of cerium group, I, 316.
- Borovsky, M. P.** See **Rubens, E.**
- Borowsky, S.** See **Wolman, I. J.**
- Borozdina, A.** See **Shmuk, A. A.**
- Borries, B. von**, intensity relationships with the ultramicroscope. I. Blackening of photographic plates by electron beams. III. Suitability and limits of sensitivity of photographic plates for electron microscope photographs, I, 67, 102. Sub-optical microscopic resolution of the images of surfaces in the electron microscope, I, 239.
- and **Ruska, E.**, effect of ray potential on electron-microscope image, I, 239.
- Borsche, W., and Barthenheier, J.**, polynuclear condensed systems with heterocyclic rings. X. Derivatives of 6,7-dihydroxyquinoline, II, 278.
- and **Klein, A.**, polynuclear condensed systems with heterocyclic rings. XI. Attempted ring-closure of 2,3-phenyl-pyrrole- and -indole-carboxylic acids. XII. 3-Phenyl-1,2-diaza-anthrone and other pyridazine derivatives, II, 277, 280.
- and **Wagner-Roemisch, M.**, polynuclear condensed systems with heterocyclic rings. VII. Ring-closure of 3-phenyl- and 3-benzyl-7:8-benzocinchoninic acids. VIII. Diazaphenanthrenecarboxylic acids and diazaphenanthrenes. IX. 7-Aminoquinolines and 1,5-diazaphenanthrene-4-carboxylic acids, II, 388, 390.
- Borth, G.** See **Langenbeck, W.**
- Bortree, A. L.** See **Scheidenhelm, E. C.**
- Borts, I. H.** See **Jordan, C. F.**
- Bose, A. N.**, sulphamethylthiazole; chronic toxicity and effect on hemopoietic system, III, 50.
- and **Ganguli, S. K.**, pressor effect of adrenaline powder, III, 109.
- See also **Basu, U. P.**
- Bose, C.** See **Chowdhury, K.**
- Bose, D. M.**, nature of latent images formed in photographic emulsions due to light absorption and to the passage of ionising particles, I, 281.
- Bose, P. K., and Sen, P. B.**, new haemostatic agents. I. Experiments with ayapanin and ayapin, III, 51.
- Boshenov, P. I.**, apparatus for preparing an average sample, I, 240.
- Boshoff, P. H.**, hyaline scleral plaques, III, 166.
- Bosse, M. D.**, carcinoid tumour of gall bladder, III, 820.
- See also **Axelrod, A. E.**
- Bost, R. W., and Andrews, E. R.**, sulphur studies. XIX. Alkyl esters of phenylthiocarbamic acid, II, 258.
- Bothé, R. T.** See **Miller, E. M.**
- Bothé, W.**, diffusion problems, I, 111. Diffusion from a point source, I, 111. Geiger counting methods, I, 138. Neutron probes, I, 319.
- and **Gentner, W.**, energy threshold of disintegration neutrons from uranium, I, 214.
- Bothie, R. T., Beaton, L. E., and Davenport, H. A.**, reaction of bone to multiple metal implants, III, 705.
- Botimer, L. W.** See **Halenz, H. F.**
- Bott, P. A.**, composition of glomerular urine. XV. Concentration of sodium in glomerular urine of *Necturi*, III, 567.
- Botcher, E. J., and Hofer, A. W.**, semi-quantitative determinations of bacteriophage in soils, III, 695.
- Bottger, G. T.**, synthetic food media for use in nutrition studies of the European corn borer, III, 252.
- Bottioli, E.**, vitamin-E in lactogenesis, III, 811.
- Bottorff, E. M.** See **Fuson, R. C.**
- Botwinick, I.** See **Abramowitz, E. W.**
- Botwright, W. E.** See **Mallmann, W. L.**
- Botzenhardt, L.** See **Grube, G.**
- Boughton, L. L.**, effects of life cycle therapeutic dosage of drugs to albino rats. II. Activity, maze learning, and relearning, III, 138.
- and **Stoland, O. O.**, effect on oestrus of drugs administered daily in therapeutic doses throughout life-cycle of rats; sequence of oestrus cycle with reference to age, III, 811.
- Bourbon, O. P.**, improved pupillometer, III, 104.
- Bourdillon, R. B.** See **Edward, D. G. ff.**
- Bourke, V. V.**, localisation of foreign bodies, III, 928.
- Bourne, G.**, graded doses of vitamin-C and regeneration of bone in guinea-pigs on scorbutic diet, III, 190. Distribution of alkaline phosphatase in tissues, III, 684.
- See also **Barnett, S. A.**
- Bourne, G. H.**, vitamin-C and repair of injured tissues, III, 502.
- Bourne, W.**, interdependence of function in anaesthesia, III, 588.
- Bourque, J. E., Haterius, H. O., and Glassco, E.**, adrenal cortical extract and saline solution in treatment of circulatory collapse of experimental venous occlusion, III, 869.
- and **Kotalik, G.**, relation of anaesthetics to experimental shock syndrome produced by venous occlusion, III, 512.
- Bourquin, J. P.** See **Schinz, H.**
- Bouslog, J. S.**, stomach and small intestine in infants, III, 176.
- Bovarnick, M.**, formation of extracellular *d*(-)-glutamic acid polypeptide by *B. subtilis*, III, 147. Substitution of heated asparagine-glutamate mixture for nicotinamide as growth-factor for *Bacterium dysenteriae* and other micro-organisms, III, 604. Chemical and biological assays of nicotinamide-like substance formed in heated mixtures of asparagine and glutamic acid, III, 824.
- Bovasky, R., and Bradbury, J. T.**, frozen plant juice as source of rabbit ovulating factor, III, 740.
- Bowden, G. L., jun.** See **Ray, F. E.**
- Bowen, N. L.** See **Schainer, J. F.**
- Bower, A. G.** See **Togasaki, Y.**
- Bower, J. R., jun., and Cooke, L. M.**, low-holdup laboratory [macro- and semi-micro-fractionating] columns, I, 240.
- Cooke, L. M., and Hibbert, H.**, lignin and related compounds. LXX. Hydrogenolysis and hydrogenation of maple wood. LXXI. Course of formation of native lignin in spruce buds, II, 346.
- Bower, L. E.** See **Bronstein, I. P.**
- Bowers, M. S.** See **Goldie, H.**
- Bowers, R. F.**, recurrent toxic goitre, III, 320.
- Bowers, R. V., Burleson, W. D., and Blades, J. F.**, alcohol absorption from skin of man, III, 589.
- Bowers, V. H.** See **Gordon, R. A.**
- Bowers, W. F.**, healing of wounds, III, 399.
- Bowman, D. E.** See **Free, A. H.**
- Bowman, R. S.** See **Kriss, M., and Voris, Le R.**
- Boyce, F. F.**, hepatic (hepatorenal) factor in burns, III, 36. Thyroid disease in the southern negro, III, 237.
- Boycott, M.** See **Poles, F. C.**
- Boyd, E. M., Johnston, G. M., and Palmer, B.**, effect of adrenaline and sympathomimetic amines on total body-water [in frogs], III, 511.
- Lee, B. K., and Stevens, M. E. T.**, effect of optical stimuli on [pituitary and] output of urine in albino rats, III, 387, 567.
- and **Pratten, J. S.**, effect of sulphonamides on artificial fever produced by peptone in animals, III, 194.
- See also **Stevens, M. E. T.**
- Boyd, G. E., and Copeland, L. E.**, surface tensions, densities, and parachors of aliphatic nitroparaffins, I, 52.
- and **Livingston, H. K.**, adsorption and energy changes at crystalline solid surfaces, I, 60.
- See also **Hoffman, E. J., and Schubert, J.**
- Boyd, J. D., Jackson, R. L., and Allen, J. H.**, degenerative lesions in diabetes mellitus, III, 47.
- and **Stearns, G.**, concomitance of chronic acidosis with late rickets, III, 130.
- Boyd, J. S. K.**, enteric group fevers in prisoners of war from Western Desert, III, 689.
- and **MacLennan, J. D.**, active immunisation and occurrences of tetanus, III, 527.
- See also **Fairley, N. H.**
- Boyd, L. J., and Scherf, D.**, magnesium sulphate in paroxysmal tachycardia, III, 867.
- See also **McGavack, T. H.**
- Boyd, M. J., and Bambach, K.**, polarographic determination of formaldehyde in biological material; application to the determination of serine, II, 287.
- and **Logan, M. A.**, colorimetric determination of serine, II, 116.

- Boyd, M. L.** See **Campbell, M. L.**
- Boyd, M. M. M.**, oviduct, foetal membranes, and placentation in *Hoplodactylus maculatus*, III, 618.
- Boyd, W. C.** See **Hooker, S. B.**
- Boyd, W. E.**, water thermoregulator, I, 318.
- Boyden, E. A.** See **Schulze, J. W.**
- Boyer, N. H.** See **Green, H. D.**
- Boyer, P. D.**, Jensen, C. W., Nesbit, M. E., Phillips, P. H., Pounden, W. D., and Rupel, I. W., relationships of avitaminosis-A to vitamin-C in the young bovine, III, 254.
- Lardy, H. A.**, and **Phillips, P. H.**, rôle of potassium in muscle phosphorylations, III, 262. Potassium and other ions in phosphorylation of adenylic system, III, 916.
- See also **Phillips, P. H.**
- Boyer, P. K.**, and **Bailey, C. V.**, concentration of carbon dioxide in expired air in heart disease, III, 550.
- Boynton, B. L.** See **Nicholes, H. J.**
- Boynton, D.**, and **Cain, J. C.**, relationships between leaf nitrogen, fruit colour, leaf colour, and per cent. of full crop in New York McIntosh apple orchards, 1941, III, 534.
- Cain, J. C.**, and **Reuther, W.**, leaf analysis and apparent response to potassium in prune and apple orchards, III, 534.
- Boynton, R.** See **Arnett, J. H.**
- Boynton, R. E.**, and **Winther, N.**, oestriol glycuronide in primary dysmenorrhœa, III, 241.
- Boys, (Sir) C. V.**, capillary mercurial barometer, I, 26.
- Bozicevich, J.** See **Rees, C. W.**
- Brackney, H.**, and **Atlee, Z. J.**, beryllium windows for permanently evacuated X-ray tubes, I, 186.
- Bradacs, K.**, and **Kahovec, L.**, Raman effect. CXXI. Butadiene, pure and in solution, I, 31.
- Bradburn, M.**, thermodynamics of crystal lattices. III. Equation of state for a face-centred cubic lattice, I, 195.
- See also **Born, M.**
- Bradbury, J. T.**, and **Hodgson, R. E.**, intravenously active ovulating factor in juice of corn and oat plants, III, 482.
- See also **Bovasky, R.**, and **Mitchell, J. W.**
- Braden, S.** See **Goldblatt, H.**
- Bradford, E. A. M.** See **Crowe, E. W.**
- Bradford, H. A.**, and **Shaffer, J. H.**, sulphadiazine anuria, III, 265.
- See also **Goodrich, B. E.**
- Bradford, S. C.**, properties of fluids, I, 254.
- Bradford, W. L.** See **Brooks, A. N.**
- Bradish, R. F.**, **Everhart, M. W.**, **McCord, W. M.**, and **Witt, W. J.**, sea-water and dehydration, III, 574.
- Bradley, A. J.**, determination of equilibrium diagrams by X-ray methods. III, I, 202.
- Bradley, H. C.** See **Bailey, B.**, and **Belfer, S.**
- Bradley, J. A.**, Kjeldahl distillation without absorbing acid, I, 41.
- Bradley, J. E.**, and **Greiner, C. D. J.**, diaphragmatic hernia, III, 858.
- Bradley, W. H.**, epidemiological study of *Bact. typhosum* type D4, III, 526.
- Bradshaw, H. H.**, and **Chodoff, E. J.**, effects of eupaverine on pulmonary circulation, III, 267.
- Bradsher, C. K.**, and **Smith, E. S.**, aromatic cyclodehydration. X. 10-Phenyl-9-alkyl- or -9-aryl-anthracenes. XI. Cyclisation of o-benzylphenones [o-benzylphenyl ketones], II, 225, 265.
- Bräucker, E.** See **Jenckel, E.**
- Brager, A.** See under **Breger, A. C.**
- Bragg, (Sir) L.**, and **Lipson, H.**, demonstrating diffraction grating effects, I, 238.
- Brailsford, J. F.**, variations in ossification of bones of hand, III, 221.
- Brajinikov, B.**, constituents of surface of formations, I, 107.
- Bram**, the fat youngster; treatment of 200 cases of alimentary obesity in patients under age 15, III, 828.
- Brambell, F. W.**, and **Davis, D. H. S.**, reproduction of multimammate mouse (*Mastomys erythroleucus*), III, 170.
- Bramfield, R. T.**, effect of colchicine pretreatment on frequency of chromosomal aberrations induced by X-radiation, III, 779.
- Branch, C. F.** See **Fitz, R.**
- Brand, E.**, and **Kassell, B.**, analysis and minimum mol. wt. of β -lactoglobulin, II, 50. Photometric determination of arginine, II, 51.
- Brandt, T.**, respiration of *Eustrongylides*, III, 12.
- and **Saurwein, J.**, chemistry of *Macrancanthorhynchus hirudinaceus*, III, 400.
- Brandaleone, H.** See **Ralli, E. P.**
- Brandaur, R. L.** See **Laubengayer, A. W.**
- Brandl, K.**, anaphylactic shock after first injection of tetanus serum, III, 697.
- Brandon, A.** See **Barnes, R. P.**
- Brandstatter, M.** See **Kofler, A.**
- Brandt, F. A.**, differential staining of hooklets of tapeworm, III, 453.
- Brandt, K.**, phosphate content of pressed yeast in aerobic metabolism of glucose, and during growth, III, 58.
- See also **Runnstrom, J.**
- Brandt, W.**, experimental reduplication of frog hindlimb, III, 222.
- Brandwijk, A. C.** See **Tasman, A.**
- Branham, S. E.**, rabbit serum for meningococcus infections, III, 604.
- Hitchens, A. P.**, and **Root, M. B.**, action of human blood on meningococci, III, 64.
- Branson, H. D.** See **Motzok, I.**
- Branning, W. S.** See **Handler, P.**, and **McBride, A.**
- Branower, W.**, resuscitation from asphyxia [and Branower's respirator], III, 163.
- Branson, H.**, and **Simba, R.**, kinetics of copolymerisation, I, 231.
- Brant, J. H.**, physical constants of methyl isopropenyl ketone, I, 9.
- Branwood, A. W.**, clinical trials of pethidine, III, 513.
- Brase, K. D.** See **Turkey, H. B.**
- Brash, H.** See **Yates, N.**
- Brass, (Miss) E.** See **Schopf, C.**
- Brattain, R. R.**, **Rasmussen, R. S.**, and **Cravath, A. M.**, spectrophotometric method for analysis of multi-component mixtures and its infra-red application, I, 319.
- See also **Rasmussen, R. S.**
- Bratton, A. C.** See **Marshall, E. K.**, and **Shepherd, R. G.**
- Brauer, G.**, niobium oxides, I, 261.
- Braun, A. C.**, and **Laskaris, T.**, tumour formation by attenuated crown-gall bacteria in presence of growth-promoting substances, III, 279.
- See also **Eirod, R. P.**, and **White, P. R.**
- Braun, E.** See **Huidobro, F.**
- Braun, H.**, adenoma of interstitial cells of testis, III, 244.
- Braun, J. von**, and **Meyer, F.**, synthesis of a-bromo adipic acid, II, 292.
- and **Reitz, J.**, 1:5-mesomethylidene cycloheptane, the bicyclic ring homologue of norcamphane, II, 376.
- and **Rudolph, W.**, syntheses in tetrazole series. II, II, 394.
- and **Schattner, O.**, scission of alkyl groups in Friedel-Crafts reaction, II, 358.
- Braun, R.** See **Simonson, E.**
- Braun-Menendez, E.** See **Dell'Oro, R.**, **Foglia, V. G.**, and **Houssay, B. A.**
- Braune, H.**, and **Peter, S.**, determination of equilibrium and reaction velocity in sulphur vapour by quenching experiments, I, 128.
- Brav, S. S.** See **Lehrfeld, L.**
- Bray, E. E.**, and **Gingrich, N. S.**, structure of liquid carbon tetrachloride, I, 300.
- Bray, J.**, and **King, E. J.**, phosphatase reaction as aid to identification of micro-organisms using phenolphthalein phosphate as substrate, III, 917.
- Bray, J. M.**, minor chemical elements in fluorites from Jamestown, Colorado, I, 188. Spectroscopic distribution of minor elements in igneous rocks from Jamestown, Colorado, I, 291.
- Bray, M. M.** See **Hawks, J. E.**
- Bray, P. T.**, and **Cruickshank, J. C.**, meningitis due to *Diplococcus mucosus*, III, 582.
- Bray, W. E.**, and **Carter, J. S.**, dish for single plate method of culturing anaerobes and bacteria requiring increased carbon dioxide tension, III, 687.
- Brazier, M. A. B.** See **Viets, H. R.**
- Brdička, R.**, adsorption of reduced methylene-blue at the dropping mercury electrode, I, 19. Two-stage reversible electro-reduction, with formation of semi-quinones and their dimerides, at the dropping mercury electrode, I, 258.
- Breaden, T. W.**, **Keane, J.**, and **Nolan, T. J.**, chemical constituents of lichens found in Ireland; *Cladonia impesca*, Harm., III, 219.
- Breazeale, E. L.** See **Pierce, L. F.**
- Brechovskich, L. M.**, diffuse scattering of X-rays, I, 53.
- Bredée, H. L.**, and **De Boos, J.**, viscosity-concentration relationships in concentrated solution. VI. Significance of viscometric "extension factor," I, 10.
- Breder, C. M.**, behaviour and evolution of species of blind cave fish, III, 857.
- Bredereck, H.**, **Berger, E.**, and **Ehrenberg, J.**, nucleic acids. XV. Synthesis of nucleotides (muscle-adenylic acid, cytidylic acid), II, 245.
- Berger, E.**, and **Richter, F.**, nucleic acids. XVIII. Existence of guanineuridylic acid, II, 397.
- and **Hoepfner, E.** [with **Jochmann, I.**, and **Martini, A.**], nucleic acids. XXI. Tetranucleotide of yeast- and thymo-nucleic acid, II, 143.
- Martini, A.**, and **Richter, F.**, nucleic acids. XIX. Enzymic and chemical preparation of nucleosides from yeast nucleic acid, II, 397.
- Bredig, M. A.**, polymorphism of calcium carbide, I, 96.
- Bredt-Savelsberg**. See under **Lipp, M.**
- Breedis, C.**, action of extreme cold on leukaemic cells in mice, III, 86.
- Breese, B. B.**, **Watkins, E.**, and **McCoord, A. B.**, absorption of vitamin-A in tuberculosis, III, 254.
- See also **Clausen, S. W.**
- Breger, A. C.**, and **Kotov, V. P.**, quantitative determination of the energy of X-ray reflexions in crystal structure analysis. IV. Micro- and integral-photometering of reflexions, I, 52.
- See also **Kotov, V. P.**
- Breitenbach, H. L.** See **Breitenbach, J. W.**
- Breitenbach, J. W.**, and **Breitenbach, H. L.**, thermal polymerisation of styrene; effect on polymerisation of methylated p-benzoquinone and chloranil, I, 19.
- Breiter, H.**, **Mills, R.**, **Rutherford, E.**, **Armstrong, W.**, and **Outhouse, J.**, utilisation of calcium of carrots by adults, III, 41.
- Breitner, H. J.**, concentration function in foaming of partly foamable solutions. I, I, 152.
- Breneman, W. R.**, action of diethylstilboestrol in chick, III, 115.
- Brenizer, A. G., jun.** See **Cope, O.**
- Brenner, C.**, and **Merritt, H. H.**, effect of choline derivatives on electrical activity of cortex, III, 797.
- Brenner, M. Z.** See **Likov, A. V.**
- Brenner, S.**, **Brookes, M. C. H.**, and **Roberts, L. J.**, relation of liver stores to occurrence of early signs of vitamin-A deficiency in white rats, III, 253.
- and **Roberts, L. J.**, effects of vitamin-A depletion in young adults, III, 575.
- See also **Popper, H.**
- Brent, B. J.** See **Leathem, J. H.**

- Brescia, M. A., diphtheria immunity in infancy, III, 63.
and Dobbins, J. M., acute phosphorus poisoning, III, 424.
- Breslau, A., preparation of Schweitzer's reagent, II, 157.
- Bresler, F. See Soibelman, B. I.
- Breslove, B. B. See Koser, S. A.
- Breslow, L., Shalit, P. R., and Anderson, G. W., acceptance of diphtheria and smallpox immunisation, III, 603.
- Brettscher, E. See Karrer, P.
- Bretschneider, H., De Jonge-Bretschneider, A., and Ajtai, N., synthetic oestrogens of diphenylethane series, II, 324.
- Breuer, W. See Hüttig, G. F.
- Breusch, F. L., and Tulus, R., autocondensation of oxalic acid, II, 217.
- Brewer, A. E., sulphaguanidine in bacillary dysentery, III, 508.
- Brewer, A. K. See Lasnitzki, A.
- Brewer, J. H., Petri-dish cover and cultivation of anaerobes and microaerophiles, III, 276.
- Brewington, G. P., improvement in design of concave grating spectrograph, I, 71.
- Brewster, C. M., and Watters, G. G., derivatives of 2-propionyl-1-naphthol, II, 94.
- Brewster, E. L., and Riemann, W., sulphur in organic compounds containing nitrogen and halogen; acidimetric micro-determination, II, 51.
- Briant, W. W., jun. See Henderson, S. G.
- Briault, R. See Wurmser, R.
- Brick, R. M. See Treuting, R. G.
- Brickner, R. M., Rosner, A. A., and Munro, R., physiological aspects of obsessive state, III, 100.
and Stein, A., intellectual symptoms in temporal lobe lesions including "déjà pensée," III, 467.
- Bridge, E. M. See Livingston, S.
- Bridge, H. S. See Davis, R.
- Bridgman, W. B., physico-chemical characteristics of glycogen, II, 57.
and Williams, Jonathan W., optical problems of the ultracentrifuge, I, 72.
- Brieghel-Müller, A., filtration. I., I, 288.
- Briegleb, G., existence and basicity of ammonium hydroxide, I, 36. Thermochemistry of acid dissociation; proton affinities of acid anions, I, 63. Proton affinity of NH₃, H₂O, and OH, I, 92. Proton affinity of O' and O'' and electron affinity of O and O', I, 220.
- Brierley, P. See Emsweller, S. E.
- Briesen, H. von, physiological principles in head injury treatment, III, 639.
- Briggs, A. P., significance of urinary ammonia, III, 249.
- Briggs, G. M., jun., Elvehjem, C. A., Hart, E. B., and Luckey, T. D., two chemically unidentified, water-soluble vitamins necessary for chicks, III, 577.
- Elvehjem, C. A., Hart, E. B., Luckey, T. D., and Mills, R. C., effect of p-aminobenzoic acid when added to purified chick diets deficient in unknown vitamins, III, 754.
- Elvehjem, C. A., Hart, E. B., Luckey, T. D., and Teply, L. J., nicotinic acid deficiency in the chick, III, 753.
- Elvehjem, C. A., Hart, E. B., and Mills, R. C., nicotinic acid in chick nutrition, III, 334.
- See also Hegsted, D. M.
- Briggs, J. B., and Briggs, R. W., effects of a water-soluble carcinogen on early frog development, III, 747.
- Briggs, L. H., and Lyttleton, J. W., reactions of hydrazoic acid. II. Quantitative study of action with substituted benzoic acids, II, 361.
- Briggs, R. W. See Briggs, J. B.
- Briggs, S. W., and Comings, E. W., effect of temperature on liquid-liquid equilibration; benzene-acetone-water system and docosane- α -diphenylhexane-furfuraldehyde system, I, 202.
- Brigham, H. R. See Sheppard, S. E.
- Bright, J. R., and Fernelius, W. C., association of boron trifluoride additive compounds with amines in non-polar solvents, I, 201. Temperature-concentration equilibria in system dimethylaniline-sulphur dioxide, I, 202.
- and Jasper, J. J., molecular surface energy of sulphur dioxide addition compounds. II., I, 250.
- Bright, R. D. See McElvain, S. M.
- Brighton, G. R., Snow, W. B., and Friedman, H. S., short-wave therapy in sinusitis, III, 54.
- Brighton, K. W., and Reid, E. E., condensation of chloroacetophenone with ethanol- and diethanol-amine and of chloroacetylpyrocatechol with β -methoxyethylamine, II, 195. β -Alkylthioethylamines and corresponding carbamides, sulphoxides, and sulphones, II, 217.
- Brill, N. Q., and Seidemann, H., electroencephalographic changes during hyperventilation in epileptic and non-epileptic disorders, III, 99.
- Brill, R., behaviour of polyamides on heating, II, 56.
- Brillouin, L., theory of the magnetron. III., I, 173.
- Brineham, J. H., jun. See Lopez, V. M.
- Briner, E., calculation of chemical equilibria in gaseous systems by aid of Nernst equations or from entropies; application to various equilibria, especially that of nitric oxide, I, 201.
- and Hoefer, E., electrolysis with alternating current superposed on direct current (undulating current); reduction of nitrocarbamido to semicarbazide, I, 232.
- and Wenger, P., oxidation of aldehydes catalysed by ozone; effect of solvent, surface reactions, and presence of anti-oxidants, I, 158.
- and Yalda, A., potential of ozone electrode, I, 92.
- See also Kündig, J. J., and Paillard, H.
- Brines, O. A., spontaneous rupture of normal spleen, III, 864.
- Brink, F., jun. See Davies, P. W.
- Brink, N. G., Lane, J. F., and Wallis, E. S., reactions of organometallic compounds with alkyl halides. I. Action of sodium ethyl on (-)- β -bromo-octane, II, 284.
- Brinkhous, K. M. See Seegers, W. H.
- Brinkley, S. R., jun. See Owen, B. B.
- Brintzinger, H., air-free carbon dioxide from a Kipp apparatus for the Dumas nitrogen determination, I, 321.
- and Rost, B., determination of pH with tungsten and molybdenum electrodes, I, 262.
- Briscoe, H. V. A. See Winter, E. R. S.
- Britton, J. W., and Howell, C. E., physiological and pathological significance of duration of gestation in mare, III, 888.
- Britton, S. W., and Kline, R. F., pseudoaffective state and decerebrate rigidity in sloth, III, 794.
- Broadbent, B. T. See Rochford, J. D.
- Broadfoot, W. C. See Tyner, L. E.
- Brock, J. F. See Baumann, W. E.
- Brock, R. B., L.T. air-circulated constant-temperature oven, I, 165.
- Brock, R. C., surgical treatment of bronchial carcinoma, III, 898.
- Brock, R. W., weathering of igneous rocks near Hong Kong, I, 291.
- Brock, S., neurogenic theory concerning effects of iodine on goitre, III, 881.
- Brockman, F. G., and Hochgesang, F. P., electrical ignition of spectrographic arc, I, 43.
- Brockmann, H., preparative organic chemistry. IV. Chromatographic adsorption, II, 347. and Schodder, H., alumina of graded adsorbative powers for chromatographic adsorption, I, 261.
- Brockway, G. See Jaffe, I.
- Brode, W. R. See Stahly, G. L.
- Broders, A. C., surgical pathology of thyroid gland, III, 734.
See also McDonald, J. R.
- Brodie, A. G., and Sarnat, B. G., ectodermal dysplasia (anhidrotic type) with complete anodontia, III, 450.
- Brodie, B. B., and Udenfriend, S., determination of quinine in human plasma; determination of quinidine, III, 780.
- Brodie, J., modified Leifson media for isolation of *B. dysenteriae* and pathogenic members of colon-typoid group, III, 63.
and Stiven, D., reclamation of used agar, III, 431.
- Brodski, A. E., Deduszenko, N. I., Makolkin, I. A., and Mikluchin, G. P., chemical reactions with heavy oxygen, I, 261.
and Mikluchin, G. P., study of mechanism of Beckmann rearrangement by isotopic method, II, 94.
See also Mikluchin, G. P.
- Brodski, A. L., antagonism between soil infusoria and [plant] pathogenic fungi, III, 275.
- Brodsky, I., congenital abnormalities, teratology, and embryology; art and lore in Oceania, III, 858.
- Brody, F., and Bogert, M. T., synthesis of a pyridine analogue of hydnocarpic acid and of a lower homologue, II, 337. Thiazoles. XXVII. Thiazole analogue of hydnocarpic acid, II, 343.
- Brody, H., focal lipoid granulomatosis of lung following instillation of iodised poppyseed oil, III, 634.
- Brody, H. W. See Childers, N. F., and Marshall, G. E.
- Brody, M. B., 1916 Stanford Binet vocabulary test revised for rapid routine practice, III, 234.
- Brody, S., lactational performance and body weight, III, 33. Growth and energy metabolism of thyroidectomised cattle, III, 476.
- Kibler, H. H., and Ragsdale, A. C., resting maintenance cost in growing dairy cattle, III, 503.
- Kibler, H. H., and Trowbridge, E. A., growth and development with special reference to domestic animals. LVIII. Resting energy metabolism and pulmonary ventilation in growing horses, III, 827.
See also Kibler, H. H.
- Brody, S. B., X-ray investigation of structure of lead chromate, I, 8.
- Brose, S. See Erbring, H.
- Brofman, B. L. See Huizenga, K. A.
- Brogden, W. J., and Gantt, W. H., intraneuronal conditioning; cerebellar conditioned reflexes, III, 724.
- Brokaw, K. F., Sedam, M. S., and Cassirer, A. M., influence of diet on physiologic anaemia of infants, III, 226.
- Bromberg, A. See Lepin, L.
- Bromberg, Y. M., and Brzezinski, A., labour in young and old primiparae, III, 243.
See also Sadowsky, A., and Zondek, B.
- Bromby, N. G., Peters, A. T., and Rowe, F. M., butylnaphthalenes and their derivatives. I. 2-tert-Butylnaphthalene, II, 185.
- Bromehead, C. N., Murray, M. M., and Wilson, D. C., fluorine distribution, III, 751.
- Bromley, H. See Styron, C. W.
- Bromme, W., chemotherapy of gonococcal urethritis in male, III, 134.
- Bronfenbrenner, J. See Harford, C. G., Hershey, A. D., and Sulkin, S. E.
- Bronson, L. H., and Parker, R. F., inactivation of virus of infectious myxomatosis by heat, III, 609.
- Bronstein, I. P., Bower, L. E., and Murphy, J., familial cretinism, III, 556.
See also Apple, C., and Genitis, V. E.
- Bronstein, L. H., carcinoma of stomach developing in pernicious anaemia, III, 124.
- Brookens, N. L. See Hamburger, M., jun.
- Brooker, L. G. S., absorption and resonance in dyes, I, 192.
- Brookes, M. C. H. See Brenner, S.

- Brookman, B. T. See Handley, C. A.
- Brooks, A. N., Bradford, W. L., and Berry, G. P., nasopharyngeal culture in whooping cough, III, 604.
- Brooks, G. See Bertrand, G.
- Brooks, S. M., carcinoma which simulated sarcoma, III, 898.
- Broom, J. C., and Brown, H. C., abnormal agglutination reactions of a strain of *Leptospira icterohaemorrhagiae*, III, 773.
- Broome, K. D., and Jarrett, B. A., photomicrography of living specimens, III, 855.
- Brophy, D. See Cipriani, A., and McEachern, D.
- Broquist, H. P. See Van Lanen, J. M.
- Brosler, W., and Kruger, H. E., viscosity of mixtures of linear highly polymerised substances, I, 152.
- Brougher, J. C., tetany in pre-eclamptic toxæmia [use of calcium, vitamin-D, parathormone], III, 326.
- Brouha, C. See Metheny, E.
- Brouha, L., Graybiel, A., and Heath, C. W., step test; measuring physical fitness for hard muscular work in adult man, III, 594. See also Johnson, R. E., Seltzer, C. C., and Wald, G.
- Brouty, (Mme.) M. L., individual activities of thallium and nitrogen ions in solutions of thallium nitride [azide], I, 62. Mean activity of solutions of thallous azide, I, 128.
- Brownman, L. G., effects of bilateral optic enucleation on voluntary muscular activity of albino rat, III, 640.
- Brown, A. D. See Wolfe, J. M.
- Brown, A. E. See Wolfrom, M. L.
- Brown, A. K., intensive therapy in staphylococcal septicæmia, III, 906.
- Brown, A. P., Fincke, M. L., Richardson, J. E., Todhunter, E. N., and Woods, E., ascorbic acid nutrition of college students, III, 577. and Moser, F., vitamin-C content of tomatoes, III, 191.
- Brown, C. See Wooten, L. A.
- Brown, C. L. See Learner, N.
- Brown, D. E., Johnson, F. H., and Marsland, D. A., pressure and temperature relations of bacterial luminescence, III, 847.
- Brown, D. H. See Pauling, L., and Pressman, D.
- Brown, E. B. See Bina, A. F.
- Brown, E. E., and Wasson, V. P., basal metabolism in rheumatic children, III, 756. See also Wasson, V. P.
- Brown, E. V. L., use-abuse theory of changes in refraction versus biologic theory, III, 309.
- Brown, E. W., the Navy ration, III, 573. See also Anderson, N. A.
- Brown, F. A., jun., Hempelmann, L. H., jun., and Elman, R., determination of blood volume with red blood cells containing radioactive phosphorus (^{32}P), III, 371.
- Brown, F. C., and Reid, E. E., diffusion of dyes in ethylene glycol gels, III, 914.
- Brown, F. R. See Newburger, M. A.
- Brown, G., Friedfeld, L., Kissin, M., Modell, W., and Sussman, R. M., immediate death following intravenous mercupurin, III, 346. See also Burstein, J.
- Brown, G. B. See Hildreth, A. C.
- Brown, G. Burniston, validity of Clausius-Mosotti formula, I, 51.
- Brown, George Bosworth. See Kilmer, G. W.
- Brown, G. G. See Hubbard, R. M., Smith, A. S., and White, R. R.
- Brown, G. H. See MacNevin, W. M.
- Brown, G. L., and Maycock, W. D'A., heart acceleration by vagus in cat after complete sympathectomy, III, 89.
- Brown, G. M., Evans, D. S., and Mendelsohn, K., radiant heat cradles, III, 516.
- Brown, H. See Kolmer, J. A.
- Brown, H. C. See Broom, J. C.
- Brown, Herbert C., and Adams, R. M., stereochemistry, II. Steric strains as a factor in relative stability of etherates of boron fluoride, I, 52.
- and Bartholomay, H., jun., steric strains and anomalous base strengths of methylamines, I, 153.
- Brown, Herbert C., and Groot, C., preparation of deuterium chloride, I, 22. Stereochemistry. III. Preparation of *d-a*-deutero- β -methylbutane; its optical rotation, II, 77.
- Brown, H. D. See Wagner, L. E.
- Brown, H. M. See Andrew, W.
- Brown, H. T., and Frazer, J. C. W., mixed heteropoly-acid catalysts for vapour-phase air-oxidation of naphthalene, I, 132.
- Brown, I., analysis and preparation of "glacial metaphosphoric acid," I, 69.
- Brown, I. W. See Ruffin, J. M.
- Brown, J. A., urea for migraine, III, 874.
- Brown, James B., preserved and fresh homotransplants of cartilage, III, 297. and Byars, L. T., malignant melanomas, III, 493.
- Brown, Jerome B. See Frankel, J. S., and Gyorgy, P.
- Brown, J. G. See Lilleland, O.
- Brown, J. H., double-zone β -haemolytic streptococci, III, 213.
- Brown, J. S. See Altschul, R.
- Brown, John S., differential density of ground water as a factor in circulation, oxidation, and ore deposition, I, 140, 168. Supergene magnetite, I, 243.
- Brown, M., and Yaczynski, G. K., vibration sensibility in face following retrogasserian neurectomy, III, 724.
- Brown, O. W. See Berk, B.
- Brown, R., germination and seedling growth. I. Water content, gaseous exchange, and dry weight of attached and isolated embryos of barley, III, 534.
- Brown, R. A., Hartzler, E. R., Peacock, G., and Emmett, A. D., determination of vitamin-B₁ in extracts and concentrates; comparison of biological and chemical methods, III, 824. See also Emmett, A. D., and Ewing, D. T.
- Brown, R. C., O'Sullivan, J. V., and Sanctuary, J., third stage of labour, III, 243.
- Brown, R. F., Bachman, G. B., and Miller, S. J., irradiation of abietic acid with ultraviolet rays, II, 272.
- Brown, R. H. J., protoplasmic viscosity of *Paramecium*, III, 225.
- Brown, R. J. See Barnes, R. P.
- Brown, R. L. See Wolfrom, M. L.
- Brown, S. C., theory of initial avalanche in breakdown of a discharge counter in helium, I, 1. Short open-tube manometer for vacuum systems, I, 73.
- Brown, S. M. See Chapman, H. D.
- Brown, W. G., and Bluestein, B. A., conversion of 2:7-dibromofluorene into 2:7-dibromophenanthrene, II, 296. Alkylation and other reactions of 9-formylfluorene, II, 301.
- Brown, W. H. See Greene, H. S. N.
- Brown, W. W. See Langstroth, G. O.
- Browne, D. C., McHardy, G., and Wilen, C., gastric mucosal changes of tuberculosis, III, 245.
- Browne, E. Z., variations in origin and course of hepatic artery and its branches, III, 541.
- Browne, F. J., vitamin-B₁ in pregnancy toxæmia, III, 499. Reactions to pressor substances in normal and toxæmic women, III, 869.
- Browne, H. C., cutaneous reactions as index to desensitisation to histamine, III, 531.
- Browne, J. S. L. See Hoffman, M. M., and Venning, E. H.
- Browning, C. H., aminoacridine compounds (flavines) as surface antiseptics, III, 511. See also Sharp, W.
- Browning, J. S. See Corcoran, A. C.
- Brownlee, C., physiological basis for use of oestrogens in veterinary practice. I. Clinical application of stilboestrol dipropionate, III, 172.
- Brownlee, G., and Tonkin, I. M. [with Kennedy, C. R.], acridine powder in wound therapy, III, 762.
- Brownlee, I. E. See Osgood, E. E.
- Broxon, J. W., relation of cosmic radiation to geomagnetic and helophysical activities, I, 112.
- Broz, W. R. See Lemere, F.
- Bruce, H. M., and Kassner, E. W., differences in calcification between the humerus and femur of young rats receiving high-calcium, low-calcium, and stock diets, III, 496.
- Bruce, J. R. See Waring, H.
- Bruce, J. W., and Chalkley, T. S., [treatment of] erysipelas in infancy, III, 830.
- Bruce, W. N. See Tauber, O. E.
- Bruch, H., grid for evaluating physical fitness (Wetzel), III, 199. and Touraine, G., obesity in childhood; family frame of obese children, III, 193.
- Bruck, H., lifetime of zinc line λ 3076 A. ($4^1\text{S}_0 - 4^3\text{P}_1$), I, 29.
- Bruck-Lacerda, L. See Hauptmann, H.
- Brucksch, W. F., jun., and Ziegler, W. T., superconductivity. II. Evaporated lead films, I, 56. Heat capacities of molecular lattices. III. Molecular solids, I, 85. See also Ziegler, W. T.
- Brüche, E., limits of resolution of emission electron microscope, I, 138.
- Brückner, J., possibility of differentiating between small amounts of cerebroglucosides and -galactosides, II, 116.
- Brüll, W. See Sah, P. P. T.
- Brüning, K., role of copper in tungsten-copper-barium cathode, I, 269.
- Brues, A. M., Tracy, M. M., and Cohn, W. E., relation between nucleic acid and growth, III, 506.
- Bruesch, R., staining myelin sheaths of optic nerve fibres with osmium tetroxide vapour, III, 158.
- Bruesch, S. R., and Arey, L. B., number of myelinated and unmyelinated fibres in optic nerve of vertebrates, III, 317.
- Bruger, M., and Ehrlich, S. B., cholesterol content of urine in patients with cancer, III, 894.
- and Member, S., fractionation of iodine in blood, III, 628.
- and Rosenkrantz, J. A., arteriosclerosis and hypothyroidism: possible interrelationship, III, 11. See also Eidelberg, J., Greene, C. H., Moolten, R. R., and Oppenheim, E.
- Bruhat, G., Blanc-Lapierre, A., Schiltz, J., and Raoult, G., photo-electric polarimeter, I, 71.
- Corolleur, C., and Raoult, G., dispersion of the Kerr phenomenon of carbon disulphide, I, 117.
- Brumback, J. E., jun. See Albanese, A. A., and Holt, L. E., jun.
- Brumberg, E. M., and Feofilov, P. P., entoptic phenomenon in polarised light, III, 316. and Schevtschenko, M. V., method of colour-photomicrographs in ultra-violet as applied to determination [detection] of silver in thin [mineral] sections, I, 75.
- Brunel, A. See Combes, R.
- Bruner, D. W., and Edwards, P. R., monophasic non-specific *Salmonella* types, III, 214. See also Cherry, W. B., and Edwards, P. R.
- Bruni, G., isomorphous replacement of bivalent atoms and ψ -atoms [groups] in organic compounds, II, 308.
- Brunings, K. J. See Corwin, A. H.
- Brunjes, A. S., and Bogart, M. J. P., vapour-liquid equilibria for commercially important systems of organic solvents; binary systems ethanol-n-butanol, acetone-water, and isopropanol-water, I, 128.
- Brunner, H., infections of meninges and brain of pharyngeal origin, III, 164. Neurology in otolaryngology, III, 388.
- Brunner, M., and Baron, B., presence of ingested cottonseed protein in woman's milk, III, 531. See also Baron, B.
- Brunner, M. J. See Cardon, L.
- Brunner, R., and Seed, L., blood pressure and pulse rate changes during thyroidectomy, III, 162.

- Brunner, R. See also Cole, W. H.
- Brunschwig, A., Scott, V. B., Corbin, N., and Moe, R., intravenous injection of gelatin for nutritional purposes, III, 751.
See also Julian, O. C., Scott, V. B., and Steiner, P. E.
- Brunson, A. M. See White, J. W., jun.
- Brunstetter, B. C. See Curran, H. R., and Myers, A. T.
- Brunycastle, D. D., and Cleghorn, R. A., blood volume of untrained normal dogs, III, 623.
- Brush, A. L. See Zabriskie, E. G.
- Brush, B. See Harkins, H. N.
- Bruson, H. A., acrylonitrile. I. Cyanoethylation of active methylene groups, II, 62.
and Riener, T. W., acrylonitrile. II. Reactions with ketones. III. Cyanoethylation of $\alpha\beta$ -unsaturated compounds. IV. Cyanoethylation of active hydrogen groups, II, 122, 153.
- Bryan, A. H., sulphasuxidine (succinylsulphathiazole) in veterinary practice, III, 673.
- Bryan, C. S., Horwood, R. E., and Clark, C. F., value of tyrothricin (gramicidin) in a herd mastitis control programme, III, 831. Lactovaccine in control of mastitis, III, 836. Mastitis and herd practices in College dairy herd, III, 836.
- Bryan, W. R., and Beard, J. W., correlation of frequency of positive inoculations with incubation period and concentration of purified papilloma protein, III, 183. Host influence in characterisation of response to papilloma protein and to vaccinia virus, III, 183.
- and Shimkin, M. B., quantitative analysis of dose-response data obtained with three carcinogenic hydrocarbons in strain C3H male mice, III, 748.
See also Andervont, H. B.
- Bryan, W. W. See Cormia, F. E.
- Bryant, R. See Garrett, A. B.
- Bryant, W. M. D., optical crystallographic studies with the polarising microscope. IV. Axial dispersion with change of sign; dispersion measurements, I, 147.
See also Mitchell, J., jun.
- Bryce, L. See Jakobowicz, R.
- Bryk, G. See Croatto, U.
- Brzezinski, A. See Bromberg, Y. M., Sadovsky, A., and Zondek, B.
- Btesh, S. See Reitler, R.
- Bucca, H. B. See Falk, C. R.
- Buchanan, C., Loudon, J. D., and Robertson, J., 4-nitro-3-ethoxytoluene-6-sulphonic acid, II, 188.
- Buchanan, J., Percival, E. E., and Percival, E. G. V., polysaccharides of carragheen moss (*Chondrus crispus*). I. Linkage of *d*-galactose residues and ethereal sulphate, II, 124.
- Buchanan, J. M., Hastings, A. B., and Nesbett, F. B., glycogen formation from pyruvate *in vitro* in presence of radioactive carbon dioxide, III, 194.
See also Hastings, A. B.
- Buchanan, O. H. See Block, W. D.
- Buchbinder, J. H., and Lipkoff, C. J., splenosis; multiple peritoneal splenic implants following abdominal injury, III, 303.
- Buchbinder, L., transmission of respiratory infections, III, 69.
and Phelps, E. B., micro-organisms in simulated room environments. I. Performance of Wells air centrifuge and of settling rates of bacteria through air. II. Survival rates of streptococci in dark, III, 430.
- Phelps, E. B., and Soloway, M., micro-organisms in simulated room environments. III. Survival rates of streptococci in presence of natural daylight and sunlight, and artificial illumination, III, 430.
- Ruhl-Koupal, J., Solotorovsky, M., and Soloway, M., micro-organisms in simulated room environments. V. Effect of survival on pathogenic properties of streptococci: properties other than mouse virulence, III, 438.
- Buchbinder, L., and Solotorovsky, M., choline-esterase. VI. Disappearance of vaccinia virus from air, III, 438.
- Solotorovsky, M., and Soloway, M., micro-organisms in simulated room environments. IV. Effect of survival on pathogenic properties of streptococci: mouse virulence, III, 438.
- Bucher, K., comparison of vagal respiratory regulation in cats and rabbits, III, 721.
- Bucher, L., biological tests of dried and conserved liquid citrate plasma, III, 5.
- Bucher, N. L. R. See Jones, G. E. S.
- Bucher, R., universal donor blood in transfusions, III, 83. Sterile production of large amounts of non-denatured dried plasma, III, 84. Solubility of muscle-protein in adrenalectomised and in hypophysectomised rats, III, 646.
- Bucherer, H., bacterial degradation of poisons. I. Nicotine, III, 523.
- Buchman, E. R., Reims, A. O., and Schlatter, M. J., cyclobutane derivatives. II. Thermal decomposition of *trans*-cyclobutane-1,2-bistrimethylammonium hydroxide. III. *cis*-cycloButane-1,3-dicarboxylic acid, II, 92, 127.
- Reims, A. O., Schlatter, M. J., and Skei, T., cyclobutane derivatives. I. Degradation of *cis*- and *trans*-cyclobutane-1,2-dicarboxylic acids to the corresponding diamines, II, 127.
See also Sargent, H.
- Buchman, J., rationale and results of maggot therapy in chronic osteomyelitis, III, 198.
- Buck, A. C. See Grummitt, O.
- Buck, D. M. See Fay, M.
- Buck, J. S., and Baltzly, B., esters of *sec*-hydroxyaralkylalkylamines, II, 60.
- Baltzly, R., and Ferry, C. W., mono- and di-substituted guanidines, II, 24.
- Baltzly, R., and Ide, W. S., unsymmetrical disubstituted carbamides, II, 31. *N*-Substituted barbituric acids, II, 72.
See also Ardis, A. E., Baltzly, R., Ferry, C. W., Hjort, A. M., and Ide, W. S.
- Buckles, R. E. See Winstein, S.
- Bucksteeg, W., action of toluene on bacteria, III, 688.
- Buddington, A. F., petrological concepts and interior of the earth, I, 322.
- Budington, R. A., ciliary transport in starfish, III, 857.
- Budo, A., and Kovacs, I., intensity distribution in the quartet-doublet bands. I, I, 216.
- Büchner, E. See Criegee, R.
- Bückmann, H. See Kaufmann, H. P.
- Bueding, E., Fazekas, J. F., Herrlich, H. C., and Himwich, H. E., effect of insulin on pyruvic acid formation in depancreatised dogs, III, 645.
- and Goldfarb, W., blood changes following glucose, lactate, and pyruvate injections in man, III, 376.
- Wortis, H., Fein, H. D., and Esturonne, D., pyruvic acid metabolism in diabetes mellitus, III, 414.
See also Goldfarb, A. E.
- Buehl, C. C., and Pyle, S. I., use of age at first appearance of 3 ossification centres in determining skeletal status of children, III, 153.
- Buehler, C. A., Cooper, D. E., and Scrudder, E. O., stability of 2:2'-dihydroxydiphenylmethane, II, 363.
- Bülbbring, E., and Burn, J. H., adrenaline, sympathetic ganglia, and shock, III, 94.
- Bülow, M., applicability of different substrates for cell respiration, III, 336.
- Bürger, K., micro-determination of sulphur and halogens by melting with potassium. II, I, 98. Use of concentrated sulphuric acid instead of lead dioxide for absorption of oxides of nitrogen in micro-C-H determinations, II, 76.
- Buerger, M. J., characteristics of soap hemihydrate crystals, I, 117. Unit cell and space-group of claudite, I, 290.
- and Buerger, N. W., structural relations between high- and low-chalcocite, I, 268.
- Buerger, N. W., and Chesley, F. G., temperature-controlled X-ray powder camera, I, 210, 318.
- De Bretteville, A., jun., Ryer, F. V., and Smith, L. B., lower hydrates of soap, II, 119.
See also Lukesh, J. S.
- Buerger, N. W., X-ray evidence of existence of mineral digenite, Cu_2S_5 , I, 188. Weissenberg controlled-temperature technique, I, 209.
- See also Buerger, M. J.
- Busing, K. H., and Peters, F., formation of ascorbic acid from xylose by *B. prodigiosus*, III, 692.
- Büttner, M. See Albrecht, R.
- Bugg, B. R. See Anderson, L. G.
- Buhle, E. L., Moore, A. M., and Wiselogel, F. Y., configuration of tervalent nitrogen; dicyclic hydrazine derivative, II, 207.
- Whalen, M. L., and Wiselogel, F. I., tervalent carbon. II. Unsymmetrical hexa-aryldimethyl peroxides, II, 229.
- Buhs, R. P. See Scudi, J. V.
- Buie, B. F., igneous rocks of Highwood mountains, Montana. III. Dykes and related intrusives, I, 291.
- See also Larsen, E. S.
- Buirge, R. E. See Dennis, C.
- Bukantz, S. C., and Abernethy, T. J., non-specific precipitation of sulphathiazole azo-conjugates by immune sera; inhibition and complement fixation, III, 611.
- Cooper, A., and Bullowa, J. G. M., photoelectric titration of pneumococcal capsular polysaccharide, III, 283. Elaboration of soluble capsular polysaccharide by *Pneumococcus* III in relation to growth phases *in vitro*, III, 283.
- Bukatsch, F., determination of vitamin-C with the Zeiss step-photometer, III, 667.
- Bulatov, G. A., response of larva of the Black Sea *Teredo natalis*, L., to different water temperatures, III, 658.
- Bulcraig, W. R., and Dawson, H. M., kinetics of aqueous hydrolysis of sodium phenylbromoacetate and sodium phenylchloroacetate, I, 157.
- Bull, D. R., and Burnet, F. M., experimental immunisation of volunteers against influenza virus B, III, 924.
- See also Burnet, F. M.
- Bull, G. M., benign albuminurias, III, 180.
- Bull, H. D. See Altmann, M.
- Bullard, F. M., source of beach and river sands on gulf coast of Texas, I, 322.
- Bullard, J. F., and Andrews, F. N., experimental alteration of thyroid function in cattle, III, 881.
- Bullet, F. See Bernhard, K.
- Bullock, T. H., Burr, H. S., and Nims, L. F., electrical polarisation of pacemaker neurones, III, 793.
- and Nachmansohn, D., choline-esterase in primitive nervous systems, III, 798.
- Bullough, H. F., cyclical changes in skin of mouse during oestrous cycle, III, 889.
- Bullough, W. S., gametogenesis in adult minnow (*Phoxinus laevis*, L.), III, 26. Growth of follicle and corpus luteum in mouse ovary, III, 27. Oogenesis and its relation to oestrous cycle in adult mouse, III, 27. Effects of oestrone on ovary of mouse, III, 889.
- Bullowa, J. G. M., Alterman, J., Katona, N., Scannell, M., and Robinson, Arthur, pertussis immunity with toxin and antitoxin, III, 604.
- See also Boroff, D. A., Bukantz, S. C., Perlman, E., Polowe, D., and Rothman, M.
- Bunata, J. See Atlas, D. H., and Cardon, L.
- Bungs, J. See Wanag, G.
- Bunker, J. W. M. See Harris, R. S.

- Bunkfeldt, R., and Steenbock, H., vitellin, casein, liver, and muscle tissue as sources of phosphorus for the rachitic rat, III, 496. Effect of dietary fat on bone calcification in growing rat, III, 574.
- Bunn, C. W., and Garner, E. V., crystal structure of rubber hydrochloride, I, 33.
- Bunnell, I. L. See Kingdon, C. L.
- Bunnett, J. F. See Scott, A. F.
- Bunney, W. E. See Volk, V. K.
- Bunting, M. I., distribution of colour variants in ageing broth cultures of *Serratia marcescens*, strain 274, III, 65.
- and Ingraham, L. J., distribution of colour variants in ageing broth cultures of *Serratia marcescens*, strain, 274, III, 65.
- Burawoy, A., bond energy, bond distance, and nature of covalent linking, I, 116.
- Burbage, E. J., and Anderson, B. W., analysis of movements of shadow-edges on refractometer in the case of biaxial gemstones, I, 25.
- Burbank, B. See Forsee, J. H.
- Burbridge, T. N. See Knox, W. J., jun.
- Burch, A. B., microscalpel for use in experimental embryology, III, 447.
- Burch, F. E., and Camp, W. E., results of irradiation of malignant melanomas of uveal tract, III, 877.
- Burch, G. E., Cohn, A. E., and Neumann, C., reactivity of intact blood vessels of fingers and toes to sensory stimuli in normal resting adults, in patients with hypertension, and in senile subjects, III, 229. See also Neumann, C., and Winsor, T.
- Burch, J. C., endocrine therapy in obstetrics and gynaecology, III, 171.
- Burchell, H. B., supernormal phase in human heart, III, 89. See also Barnes, A. R., and Keith, N. M.
- Burchfield, P. E., vapour pressures of indene, styrene, and dicyclopentadiene, I, 34. See also Smoker, E. H.
- Burckhardt, J. L., use of sulphanilamides in differential diagnosis, III, 672.
- Burckhardt, V., and Reichstein, T., bile acids and related substances. XVII. Formation of lactones from ketones and perbenzoic acid, II, 167.
- Burdette, W. J., and Strong, L. C., inheritance of susceptibility to tumours induced in mice. I. Tumours induced by methylcholanthrene in five inbred strains of mice, III, 747.
- Burdick, H. O., Watson, H., Ciampa, V., and Ciampa, T., test for pregnancy gonadotropins on basis of induced ovulation in mice, III, 888.
- Whitney, R., and Emerson, B., transport of tubal ova, III, 27.
- Burdon, K. L., Stokes, J. C., and Kimbrough, C. E., common aerobic spore-forming bacilli. I. Staining for fat with Sudan-black B-safranine. II. Fermentation reactions in agar butt-slants, III, 276, 431.
- Burford, M. G., and Wichrowski, A. F., detection of mercuric ion in semimicro qualitative analysis, I, 69.
- Burford, T. H., and Blades, B., sulphonamides and post-pneumonic empyema, III, 134. See also Forsee, J. H.
- Burger, A. See Harnest, G. H., and Krahler, S. E.
- Burger, J. W., action of androgens on male fish, III, 742.
- Burger, M., microscopic observation of collodion particles as indicators of type-specific pneumococcal immune reactions, III, 922.
- Burgess, C. H., igneous rocks of Highwood mountains, Montana. IV. Stocks, I, 291. See also Larsen, E. S.
- Burgess, E. See De Santo, D. A.
- Burgess, J. W., clinical diagnosis of pregnancy in bovines, III, 174.
- Burgess, W. M. See Eastes, J. W.
- Burian, H. M., clinical significance of aniseikonia, III, 472.
- and Ogle, K. N., study of aniseikonia in case of increasing unilateral index myopia, III,
- Burk, D., Sprince, H., Spangler, J. M., Boon, M. C., and Furth, J., metabolism of induced and spontaneous leukæmias in mice, III, 402. See also Horner, C. K.
- Burk, N. F., effects of inorganic electrolytes on liberation of -SH in proteins, I, 205.
- Burke, H. E., pregnancy and experimental pulmonary tuberculosis in rabbits, III, 694.
- Burke, S. S. See Crowell, W. R.
- Burke, V., and Kaplan, A. M., comparison of Dolman kitten test, Stone cultural screen test, and Slocum-Linden agglutination test for enterotoxic staphylococci, III, 922.
- Swartz, H., and Klise, K. S., morphological life cycle of staphylococcus-like organism and modification of cycle, III, 922.
- Burkett, H. See McElvain, S. M.
- Burkley, R. E. See Bambach, K.
- Burkhardt, R. See Rath, H.
- Burkhart, E. Z., early effects of urinary gonadotropin in prepuberal male rats, III, 324.
- Burkholder, P. R., synthesis of riboflavin by a yeast, III, 770.
- and McVeigh, I., increase of vitamin-B constituents in germinating seeds, III, 217. Synthesis of vitamins by intestinal bacteria, III, 253.
- Burleson, W. D. See Bowers, R. V.
- Burlingame, P., Long, J. A., and Ogden, E., blood pressure of foetal rat and its response to renin and angiotonin, III, 790.
- Burman, B., and Weintraub, R., Levinson test for tuberculous meningitis, III, 286.
- Burn, J. H. See Bübring, E.
- Burnet, F. M., immunisation against epidemic influenza with living virus, III, 924.
- and Beveridge, W. I. B., titration of antibody against influenza viruses by allantoic inoculation of developing chick embryo, III, 852.
- and Bull, D. R., changes in influenza virus associated with adaptation to passage in chick embryos, III, 852. See also Bull, D. R.
- Burnett, C. W. F. See Hartley, J. B.
- Burns, C. M., infant and maternal mortality in relation to size of family and rapidity of breeding, III, 35.
- Burns, J. T. See Haden, R. L.
- Burns, R. A. See Weyrauch, H. M., jun.
- Burns, R. K., jun., origin and differentiation of epithelium of urogenital sinus in opossum, with a study of modifications induced by oestrogens, III, 542.
- Burns, W. See Hardy, A. V.
- Burr, G. O. See Barnes, R. H., and Norris, F. A.
- Burr, H. B. See Hayes, H. T.
- Burr, H. S., electrical correlates of growth in corn roots, III, 291. See also Bullock, T. H.
- Burri, C., learning simultaneous binocular vision, III, 19.
- Burrill, M. W., and Greene, R. R., effect of rat's liver on activity of testosterone and methyl-testosterone, III, 34. Capacity of rat's liver to inactivate deoxycorticosterone acetate, III, 169.
- Burris, R. H., Eppling, F. J., Wahlin, H. B., and Wilson, P. W., detection of nitrogen fixation with isotopic nitrogen, III, 687. See also Wilson, P. W.
- Burroughs, E. W. See Hunt, C. H.
- Burroughs, W. See Edgington, B. H.
- Burrow, T., kymograph records of respiratory patterns in relation to behaviour disorders, III, 95.
- Burrows, F. W. See Reuther, W.
- Burrows, G., high-vacuum technique, I, 103, 186.
- Burrows, H., Iball, J., and Roe, E. M. F., electrical changes in wounds and inflamed tissues. I. Bioelectric potentials of cutaneous wounds in rats, III, 37.
- MacLeod, D., and Warren, F. L., excretion of ketosteroids in human pregnancy urine in relation to sex of foetus, III, 650.
- Burrows, W., oxidation-reduction potentials in salmonella cultures. III. Relation between characteristic potential and antigenic structure. IV. Relation of observed potentials to pH, III, 286, 438. Nutritive requirements of salmonellas. III. Typhoid bacillus: carbon source and amino-acid requirements, III, 438. See also Lorr, J. A.
- Burruss, H. W. See Hargett, M. V.
- Burschies, K., esters of dihydrochaulmoogric acid and dihydrochaulmooglyl alcohol, II, 230.
- Burschtein, R., and Frumkin, A., hydrogen peroxide formation on adsorption of acids by activated charcoal, I, 95.
- Burstein, C. L., De Graff, A. C., Marangoni, B. A., and Rovenstine, E. A., prophylaxis and treatment of ventricular fibrillation induced by adrenaline during cyclopropane anaesthesia, III, 763.
- and Rovenstine, E. A., toxicity of intravenous paraldehyde, III, 676. See also Martin, S. J.
- Burstein, J., Brown, G., and Klein, C., treatment of congestive heart failure in ambulatory patients with orally administered mercurial diuretic, III, 266.
- Burt, C. A. V., and Gius, J. A., effect of prolonged local anaesthesia in oil on abdominal wound healing, III, 267.
- Burtner, E., mol. wt. of the adrenocorticotrophic hormone, III, 737.
- Burtner, R. R., and Cusic, J. W., antispasmodics. I. Basic esters of arylacetic acids, II, 161.
- Burton, C. J., Barnes, R. B., and Rochow, T. G., electron microscope; calibration and use at low magnifications, I, 102.
- Burton, H., McLeod, J. W., Mayr-Harting, A., and Walker, N., development of colours from sulphonamides (*p*-nitrobenzenesulphonamide) under bacterial action, III, 48.
- Burton, I. F. See Swendseid, M. E.
- Burton, L., nerve terminations in choroid plexus of gold fish, III, 16. Differentiation of the neuroblasts in internal plexiform layer of the retina in *Triton cristatus*, III, 543.
- Burton, M. See Feldman, M. H., and Garrison, W. M.
- Burwell, (Miss) C. G. See Merrill, P. W.
- Busch, I., and Spivack, A. H., acute appendicitis, III, 178.
- Busch, M., Weber, W., and Zink, H., catalytic hydrogenation of alkyl [aryl] halides. II, II, 331.
- Buschke, F., and Parker, H. M., possible hazards of repeated fluoroscopies in infants, III, 425.
- Buschke, W. See Friedenwald, J. S.
- Buschmakin, I. N., Begetova, A. P., and Kutschinskaja, K. I., equilibrium between liquid and vapour of binary system butyl alcohol-water, I, 16. and Kutschinskaja, K. I., composition of liquid phase and of the weight-equivalent vapour phase of the systems butadiene- ϕ -butylene, -ethyl alcohol, -acetadehyde, and -ethyl ether, I, 16.
- Buser, K., and Rupe, H., attempted preparation of a homocamphor and of a 1:7-glycol, II, 264.
- Bush, M. T., and Goth, A., flavicin, an antibacterial substance produced by an *Aspergillus flavus*, III, 758.
- Buskirk, H. H., and Delor, R. A., mylase P in preparation of natural materials for microbiological assay of pantothenic acid, III, 190.
- Buss, W. C. See Howitt, V. F.
- Butcher, E. O., effect of location on quality of hair and skin in white rat, III, 1. Oxygen consumption of skin and hair growth after adrenalectomy in white rat, III, 884.
- Butenandt, A., and Dannenberg, H., action of *B. coli* on dehydronorcholene, II, 167. Authentic Δ^1 -androsten-17-ol-3-one, an isomeride of testosterone, II, 239.
- Dannenberg, H., and Suranyi, L. A., behaviour of Δ^1 -unsaturated steroid ketones on reduction by fermenting yeast, II, 304.

- Butenandt, A.**, Friedrich-Freksa, H., Hartwig, S., and Scheibe, G., fine structure of tobacco mosaic virus, III, 69.
- Buteyn, E. K.** See Comar, C. L.
- Buthod, P.**, Rowell, L., Stewart, E., jun., and Foster, W. S., mathematical correlation of paraffins, I, 57.
- Butkevitsch, V. S.**, and Gukova, M. M., influence of soil temperature on fixation of molecular nitrogen by Leguminosae, III, 290. Influence of aeration and soil temperature on development of inoculated and non-inoculated soya plants, III, 290. and Kolesnikova, N. A., formation of ammonia in process of fixation of molecular nitrogen by *Azotobacter*, III, 432. See also Gukova, M. M.
- Butler, A. M.** nutritional requirements in infancy and in childhood, III, 404.
- Talbot, N. B.**, and MacLachlan, E. A., effect of testosterone therapy on serum potassium, III, 394. See also Talbot, N. B.
- Butler, A. Q.** See Phillips, J. H.
- Butler, C. D.**, Shaw, N. G., Hoffman, S. J., Ditkowsky, S., McVey, E., and Zeldes, M., sulphapyridine in pneumonia in children, III, 133.
- Butler, E. C. B.**, and Valentine, F. C. O., acute staphylococcal infection, III, 775.
- Butler, E. G.**, and O'Brien, J. P., effects of localised X-radiation on regeneration of the urodele limb, III, 299.
- Butler, E. T.**, and Polanyi, M., rates of pyrolysis and bond energies of substituted organic iodides, I, I, 93.
- Butler, H. M.**, bacteriological studies of severe *Cl. welchii* infections following abortion, III, 603.
- Butler, J. A. V.**, John Maclean, Charles Macintosh, and an early chemical society in Glasgow, I, 104.
- Butler, L. I.**, and Allen, H. O., [determination of] copper and cobalt in plants, III, 150.
- Butler, T. H.**, glaucoma, III, 385.
- Butsch, W. L.**, and Stewart, J. D., administration of dicoumarin compound for prophylaxis of post-operative thrombosis and embolism, III, 85. Clinical use of dicoumarin, III, 547. See also Hubbard, R. S.
- Butt, H. R.**, fat-soluble vitamins, III, 574.
- Buttle, G. A. H.** See Mitchell, G. A. G.
- Button, V.** See Kaucher, M.
- Butz, L. D.**, dehydration of $\Delta^{2\alpha}$ -hexadien- γ -ol to $\Delta^{2\alpha}$ -hexatriene and $\Delta^{1:3}$ -cyclohexadiene, II, 21.
- Butz, L. W.** See Bastron, H., and Nudenberg, W.
- Buu-Hoi, N. P.**, structure of choleic acids, II, 375. and Cagniant, P., aromatic hydrocarbon; acephenalane and its derivatives, II, 58. Synthesis of acenaphthenequinones, II, 67. Hydrogenated acids of chaulmoogra oil, II, 131.
- Buvat, R.**, action of carcinogenic hydrocarbons on carrot *in vitro*, III, 73.
- Buxbaum, L.**, adaptation of Kahn shaker for homogenising specimens for bacteriological procedures, III, 771.
- Buxell, J.**, measurement of industrial lead exposures by air analysis, III, 913.
- Buxton, C. L.**, and Sullivan, J. A., clinical use of methylstilboestrol, III, 117.
- Buza, L. von**, relation between capsule formation, haemopepsis, and virulence in *B. anthracis*, III, 848.
- Buzagh, A. von**, and Erenyi, E., filterability and liquid absorption of sediments, I, 276.
- Byars, L. T.** See Blair, V. P., and Brown, James B.
- Byers, D. J.** See Fuson, R. C.
- Byers, W. H.**, specific heats of carbon tetrafluoride from supersonic measurements, I, 301. See also Pielemeier, W. H.
- Byrne, J. B.** See Kanning, E. W.
- Byrnes, V. A.**, parallactic angle in binocular depth perception, III, 316.
- Byron, C. S.**, and Michalov, S., calcinosis, scleroderma, and parathyroidectomy, III, 645. See also Jaffe, I.
- Bystrom, A.**, crystal structure of cordierite, I, 117.
- Hök, B.**, and Mason, B., crystal structure of zinc metantimonate and similar compounds, I, 146.
- Bywater, H. E.**, copper sulphate tolerance of sheep, III, 288.
- Bywaters, E. G. L.**, crushing injury [and kidney], III, 486. and Dible, J. H., acute paralytic myohæmoglobinuria in man, III, 233.
- C.**
- Cabell, C. A.**, and Ellis, N. R., vitamin-E content of varieties of wheat, maize, grasses, and legumes as determined by rat assay, III, 413.
- Carbal, A. S.** See Fox, J. P.
- Cadden, J. F.** See Dill, L. V., and Schaffer, N. K.
- Cady, G. H.**, physical constitution of coal, I, 108.
- Cagan, R. N.** See Neuberg, C.
- Caglioti, V.**, Sartori, G., and Bianchi, E., polarography of solutions of polymetaphosphates, I, I, 131.
- Cagniant, P.** See Buu-Hoi, N. P.
- Cahen, R.**, relationship between chemical constitution and hypnotic action of some aromatic ketones, III, 588.
- Caile, R.**, treatment of intestinal carriers of enteric group of organisms [with opacol], III, 585.
- Cain, C. K.** See Katzman, P. A., Roberts, E. C., and Van Bruggen, J. T.
- Cain, J. C.** See Boynton, D.
- Cain, R. F.**, comparative transpiration rate of peaches and citrus, III, 536.
- Cairns, H.**, and Holbourn, H., head injuries in motor-cyclists, III, 553.
- Calabresi, M.**, and Geiger, A. J., potential changes in injured cardiac muscle, III, 717.
- Calame, A.** See Jentzer, A.
- Calcutt, G.**, oestrone and growth of protozoa, III, 648.
- Calder, D. G.** See Ferguson, L. K.
- Calderin, O.** See Pradera, E. S.
- Calderón-Cuervo, H.** See Smith, H. H.
- Calderone, F. A.** See Smillie, W. G.
- Caldwell, G.** See Kepl, M.
- Caldwell, M. L.** See Little, J. E.
- Caldwell, O. G.**, and Marshall, C. E., chemical and physical properties of clay minerals nontronite, attapulgite, and saponite, I, 324.
- Caldwell, P. A.** See Platt, J. R.
- Caldwell, W. A.**, and Hardwick, S. W., Flexner dysentery, III, 524.
- Caley, E. R.**, and Rogers, L. B., reagents for sodium, I, 162. See also Rogers, L. B.
- Calhoun, M. L.** See Gowen, J. W.
- Callan, H. G.**, effects of castration on prawns, III, 175. See also Barber, H. N., and Knowles, F. G. W.
- Callaway, C. P.** See Russell, W. O.
- Callaway, J. L.** See Barefoot, S. W.
- Callomon, F.**, attempts to transmit human infectious (benign) epitheliomatozes to rabbits, III, 332.
- Callow, H. J.** See Holt, P. F.
- Calver, K. M.** See Sharp, W.
- Calverly, H. O.**, trace elements in foods, III, 253. See also McClosky, W. T., Welch, H., and White, W. B.
- Calvet, E.**, gelatinisation of nitrocelluloses; heats of absorption of acetone by fibres and films of nitrocellulose, I, 127. Vapour pressure of nitrocellulose gels in acetone, I, 127.
- Calvin, M.** See Aronoff, S.
- Camalier, W., jun.** See Sprunt, D. H.
- Cambier, M. J.** See Tillett, W. S.
- Cameron, A. T.**, White, F. D., Ferguson, M., and Gibson, C., diagnostic value of plasma-proteins, III, 7.
- Cameron, C.**, and Dawson, E. K., sarcoidosis, III, 251.
- Cameron, E. J.** See Williams, C. C.
- Cameron, E. N.**, origin of sulphides in nickel deposits of Mount Prospect, Connecticut, I, 211, 323.
- Cameron, E. S.** See Tidwell, H. C.
- Cameron, H. C.** See Dodds, G. S.
- Cameron, H. S.**, use of equine gonadotropin in mare and cow, III, 119.
- Cameron, J. A.**, termination of early pregnancy by artificial fever, III, 810.
- Cameron, S. H.**, influence of soil temperature on rate of transpiration of young orange trees, III, 536. See also El Agouni, M. M.
- Camiel, M. R.**, and Bolker, H., carcinoma erysipelatodes, III, 820.
- Caminita, B. H.** See Neal, P. A., and Schnieder, R.
- Camm, G. L.** See Harper, A. A.
- Camp, M. N.** See Robinson, L. F.
- Camp, W. E.** See Burch, F. E.
- Campaigne, E.**, and Suter, C. M., identification of *o*- and *p*-sulphobenzoic acids as their *S*-benzylthiuronium salts, II, 133.
- Campbell, A. G.** See Gibbard, J.
- Campbell, A. N.**, systems $\text{LiNO}_3\text{-NH}_4\text{NO}_3$ and $\text{LiNO}_3\text{-NH}_4\text{NO}_3\text{-H}_2\text{O}$, I, 62. and Boyd, M. L., system silver nitrate-water, I, 308. and Epstein, Samuel, density of selenium, I, 57.
- Campbell, B.** See Grundfest, H.
- Campbell, B. K.** See Campbell, K. N.
- Campbell, D. H.**, experimental eosinophilia with keratin from *Ascaris suum* and other sources, III, 301. Relationship of eosinophil response to factors involved in anaphylaxis, III, 458. See also Melcher, L. R., and Pauling, L.
- Campbell, E. P.**, meningococcal meningitis, III, 135.
- Campbell, H. A.** See Shapiro, S.
- Campbell, I. D.**, nature of entropy, I, 130.
- Campbell, I. L.**, vitamin-D, parathyroid glands, and calcium metabolism, III, 503.
- Campbell, James A.** See Hopps, H. C.
- Campbell, James Argyll**, lung tumours in mice and man, III, 490.
- Campbell, James Arthur**, and Hildebrand, J. H., structure of liquid xenon, I, 250. Structure of liquid mercury, I, 250.
- Campbell, John A.** See Keitzer, W. A.
- Campbell, J. C.**, acetonæmia and albuminuria in dairy cows, III, 131.
- Campbell, K. N.**, Campbell, B. K., and Chaput, E. P., reaction of Grignard reagents with oximes. II. Action of aryl Grignard reagents with mixed ketoximes, II, 232.
- Campbell, B. K.**, Chaput, E. P., and McKenna, J. F., reaction of Grignard reagents with oximes. III. Mechanism of action of magnesium aryl halides on mixed ketoximes; synthesis of ethyleneimines, II, 232.
- and Young, E. E., substituted acetylenes and their derivatives. XLV. Addition of hydrogen to multiple carbon-carbon linkings. IV. Electrolytic reduction of alkyl- and aryl-acetylenes, II, 249.
- Campbell, P. A.**, otolaryngological problems of aviation in World War II, III, 21.
- Campbell, P. C.** See Jordon, J. W.
- Campbell, T.**, and Hofer, A. W., medium adapted to bacteriophage of *Rhizobium leguminosarum*, III, 695.
- Campos, F. A. de M.** See Rezende, C.
- Canat, E. H.**, and Opie, E. L., inflammation in embryonic life. I. Changes produced by particulate matter and by chemical agents. II. Infection of chick embryos with avian tubercle bacilli, III, 788.
- Cançado, J. R.**, incidence of intestinal parasites in a tropical area of Brazil, III, 893. See also Greco, J. B.

- Candel, S. See Mandelbaum, T.
- Candella, P. B., blood group tests on tissues of Paracas mummies, III, 451.
- Canessa Ibarra, I., acute experimental hypochloraemia and glycæmia, III, 7. Influence of insulin on blood-chlorides, III, 112.
- Canizares, O. See Saunders, H. C.
- Cannon, C. G., and George, W. H., optical reflexions from coal, I, 76. Optical dispersion for coals, I, 108. Refractive index of coals, I, 108.
See also Hirst, W.
- Cannon, C. V., and Rice, O. K., monochromator using a large water prism, I, 210.
- Cannon, G. W. See Snyder, H. R.
- Cannon, J. A. See Schechtman, A. M.
- Cannon, M. D. See Sober, H. A.
- Cannon, P. R. See Kato, K.
- Cannon, R. R. See Lushbaugh, C. L.
- Cannon, R. S., jun., and Grimaldi, F. S., scheelite-powellite minerals of the Seven Devils district, Idaho, I, 242.
- Cannon, W. B. See Rosenblueth, A.
- Cantarow, A., Hansen, L. P., Paschkis, K. E., Rakoff, A. E., and Walkling, A. A., excretion of oestrogen in bile, III, 326, 810. Excretion of exogenous and endogenous oestrogens in bile of dogs and man, III, 810.
and Wirts, C. W., hyperbilirubinaemia following administration of sulphonamides, III, 418.
See also Paschkis, K. E., and Rakoff, A. E.
- Canter, B. M., paralysis of divergence, III, 799.
- Cantor, A., Shelanski, H. A., and Willard, C. Y microscopic alkali-solubility test for identification of gonococcus colonies, III, 435.
- Caplan, J. See Koch, L. A.
- Caplescu, N. See Niculescu, M.
- Caracci, R. See Crippa, G. B.
- Carapella, L. A., and Hultgren, R., ferromagnetic nature of β -phase in copper-manganese-tin system, I, 151.
- Carbajal, C. A. P., thiochrome reaction and determination of vitamin-B₁, III, 130.
- Card, L. E. See Nalbandov, A.
- Cardini, C. E., and Serantes, M. E., effect of picrotoxin on blood-potassium of anaesthetised animals, III, 161.
See also Marenzi, A. D.
- Cardie, A. E., and Hagen, W. S., picrotoxin treatment of barbiturate poisoning, III, 513.
- Cardon, B. P., amino-acid fermentations by anaerobic bacteria, III, 355.
- Cardon, L., generalised pruritis due to carcinoma of stomach and cured by gastrectomy, III, 744.
- Atlas, D. H., Aron, E., Brunner, M. J., Bunata, J., and Teitelman, S. L., biologic false positive reactions for syphilis associated with hyperproteinæmia, III, 526.
- Atlas, D. H., Aron, E., Brunner, M. J., and Teitelman, S. L., incidence and causes of hyperproteinæmia, III, 864.
See also Atlas, D. H.
- Cardone, E., electrical procedure for the repurification concentration of antitoxin, III, 925.
- Cardoso, H. T. See Feigl, F.
- Cardless, A. B. See Fillinger, G. A.
- Carey, B. W., jun., mandelic acid and sulphamamide in urinary infections in children, III, 135.
- Carey, E. J., effect of carbon dioxide on amoeboid changes in motor nerve plates in intercostal muscle, III, 552.
- Carey, E. T. See Hofmann, W. P.
- Carey, J. B., gastroscopic observations in pernicious anaemia, III, 483.
- Cario, G., and Stille, U., determination and explanation of limits of layers emitting sodium fluorescence radiation in evening light, I, 213.
- Carlberg, O., aetiology of sulphonamide myopia,
- Carleton, A., Elkington, J. St. C., Greenfield, J. G., and Robb-Smith, A. H. T., Maffucci's syndrome (dyschondroplasia with haemangioma), III, 617.
- Carleton, L. T. See Deanesly, R. M.
- Carlin, R. B. See Adams, R.
- Carlini, E. See Zironi, A.
- Carlson, A. J., physiology of ageing, III, 487.
- Ivy, A. C., Krasno, L. R., and Andrews, A. H., physiology of free fall through air: delayed parachute jumps, III, 870.
- Carlson, G. H. See Baker, B. R., Lipschitz, W. L., and Mowat, J. H.
- Carlson, H. E. See Ockerblad, N. F.
- Carlson, J. G., effects of X-rays on mitosis in neuroblasts of *Chortophaga*, III, 223.
- Carlson, W. E. See Green, R. G.
- Carlyle, E. C. See Fraps, G. S.
- Carlyle-Gall, C. See Allen, C.
- Carmack, M. See Adams, R.
- Carmichael, J., 4:4'-diamidinodiphenyl ether (M. & B. 637) in canine babesiosis, III, 266. and Fiennes, R. N. T. W., treatment of canine babesiosis by 4:4'-diamidinodiphenoxyp propane, III, 50.
- Carmody, M. G. See Van Orstrand, H. S.
- Carmody, W. R., and Rohan, J. J., polarisation at oxidation-reduction electrodes. I. Ferrocyanide-ferricyanide electrode, I, 229.
- Carnes, W. H., Pappenheimer, A. M., and Stoerk, H. C., volume of parathyroid glands in relation to dietary calcium and phosphorus, III, 389.
See also Follis, R. H., jun.
- Carney, H. M., tantalum [for surgery], III, 366.
- Carol, J., spectrophotometric methods; determination of quinine by absorption spectrophotometry, II, 316.
- Caronna, G., reaction with hydrazoic acid in sulphuric acid. IV. Behaviour of substances containing the system -CO-CO NH-, II, 45.
- Carpenter, C. C. See Procter, I. V.
- Carpenter, C. P. See Smyth, H. F., jun.
- Carpenter, D. C., and Lovelace, F. E., interaction of formaldehyde with l(-)-asparagine, II, 122. Reaction of formaldehyde with l(+)-aspartic and -glutamic acids, II, 294.
- Carpenter, L. E. See Strong, F. M.
- Carpenter, P. L., nitrogen metabolism of coliform bacteria, III, 209.
- Carpenter, T. M., stating dosages of alcohol and concentration of alcohol in tissues, III, 589. and Trimble, H. C., respiratory quotient of protein of Dalmatian dog, III, 192.
- Carr, B. W., Bishop, W. E., and Anson, R. J., mammary arteries, III, 77.
- Carr, C. J., Vivian, D. L., and Krantz, J. C., jun., pharmacology of phenazine and its derivatives, III, 590.
See also Ellis, F. W., and Krantz, J. C., jun., Carr, C. W. See Kolthoff, I. M., and Sollner, K. Carr, E. P., Pickett, L. W., and Stücklen, H., absorption spectra of a series of dienes, I, 176.
- Carr, J. G., effect of substances influencing cell activity on growth of Rous no. 1 sarcoma, III, 128. Absence of seasonal influence in Rous no. 1 sarcoma in young chicks, III, 251. Nature of resistance of inbred line of fowls to development of Rous no. 1 sarcoma, III, 897.
- Carr, J. L., and Foote, F. S., genesis of peptic ulcer in dogs after ligating common bile ducts, III, 743.
- Carrara, A. See Poggi, A. R.
- Carroll, M. C. See Isenberger, R. M.
- Carron, M. K. See Grimaldi, F. S.
- Carruthers, C., ultra-micro-method for sodium employing the polarograph, I, 162. Micro-determination of magnesium with the polarograph, I, 236. Photometric method for [determining] ascorbic acid, III, 191.
- and Suntzeff, V., influence of limited application of methylcholanthrene on epidermal iron and ascorbic acid, III, 249.
- and Urban, F., isolation of a new "carotenoid" from rat liver, III, 484.
See also Urban, F.
- Carruthers, L. B., sulphanylguanidine in treatment of cholera, III, 195.
- Carryer, H. M., and Osterberg, A. E., determination of sulphonamides in bile, III, 416.
- Carson, J., and Smith, G. S., sulphapyridine anuria, III, 341.
- Carson, K. J. See Schwob, C.
- Carson, L. D., otolaryngological aspects of aviation, III, 317. Indoctrination of flying personnel in physiologic effects of high-altitude flying and need for and use of oxygen, III, 381.
- Carter, H. A., estimating percentage loss of hearing, III, 236.
- Carter, H. E., and Dickman, S. R., anomalous amino-nitrogen values, II, 403. and Norris, W. P., isolation of dihydro-sphingosine from brain and spinal cord, III, 163.
- Carter, J. R. See Madden, S. C.
- Carter, J. S. See Bray, W. E.
- Carter, N. M. See Tarr, H. L. A.
- Cartland, G. F. See Kuizenga, M. H., and Pabst, M. L.
- Carter, J. L., and Hopper, T. H., influence of variety, environment, and fertility level on chemical composition of soya bean seed, III, 290.
- Cartwright, J. A. See Kapeller-Adler, R.
- Carver, C. M. See Johnson, F. H.
- Cary, C. A. See Hartman, A. M.
- Case, F. H., nitration of dinitrodiphenyls, II, 26. Nitration of halogenodiphenyls. I. Nitro-derivatives of 4-bromodiphenyl, II, 26.
- Case, T. J. See Walker, A. E.
- Casey, A. E., Pearce, L., and Rosahn, P. D., blood cell factors in metastasis of Brown-Pearce tumour, III, 39.
See also Wenner, H. A.
- Cashion, F. W. See Hurd, C. F.
- Casida, L. E., and Murphree, R. L., fertility of and sex ratios from adult female rats and rabbits treated while immature with gonadotrophic hormone, III, 324.
See also Meyer, R. K.
- Caspe, S., and Osler, A. G., adenylic acid and bacterial growth, III, 276.
- Caspersson, A. O. See Adler, Erich, and Euler, H. von.
- Cass, W. E. See Keilin, B., and Rosenbaum, J. J.
- Casscells, S. W. See Blackford, S. D.
- Cassells, W. H., Becker, T. J., and Seavers, M. H., convulsions during anaesthesia; experimental analysis of role of hyperthermia and respiratory acidosis, III, 911.
- Cassidy, H. G. See Wachtel, J. L.
- Cassirer, A. M. See Brokaw, K. F.
- Castañeda, M., Gavarrón, F. F., and Balcazar, M. R., protease from [latex of] *Pileus mexicanus*, III, 427.
- Castañeda, M. R. See under Ruiz Castañeda, M.
- Castell, C. H., plant materials as enrichment media for butyric acid-forming anaerobes, III, 281. Powdered grass as enrichment medium for acid-forming anaerobes, III, 281.
- Casten, D., nutritional disturbances in regional enteritis, III, 329.
and Bodenheimer, M., hypoproteinæmia in surgical patients, III, 714.
- Castex, M. R., reabsorption of glucose by tubules in renal diabetes, III, 816.
- Castigliano, S. G., serum-diastase determinations during artificially produced intraduodenal pressure against head of the pancreas, III, 246.
- Castiglioni, A., determination of piperazine, III, II, 404. Determination of acetone in urine, III, 746.
- Castleiden, L. I. M., and Hamilton-Paterson, J. L., bagassosis, III, 425.
- Castileman, B. See Talbott, J. H.
- Castonguay, T. T., catalytic decomposition of ethyl alcohol in presence of magnesium oxide, I, 205.
- Castro, A. J. See Noller, C. R.
- Castradore, D., Loeffel, E., and MacBryde, C. M., sublingual administration of diethylstilboestrol: comparison of routes of therapy, III, 120.

- Castrodale, D.** See also MacBryde, C. M.
Cataline, E. L., and Francke, D. E., phytochemistry of helonias. I. Preliminary examination of drug, III, 538.
- Catani, R. A.**, inadequacy of pH and pR to express acidity: rA, I, 278.
- Catch, J. R.**, Cook, A. H., and Heilbron, I. M., purification and chemistry of penicillin, II, 50.
- Catcheside, D. G.**, and Lea, D. E., effect of ionisation distribution on chromosome breakage by X-rays, III, 860.
 See also Lea, D. E.
- Catchpole, H. R.**, Hamilton, J. B., and Hubert, G. R., effect of male hormone therapy on urinary gonadotropins in man, III, 34.
- Cates, H. B.**, prognosis subsequent to omentopexy in surgical treatment for liver cirrhosis, III, 485.
- Cattaneo, C.**, and Sartori, G., polarography of pyocyanine, I, 132.
 See also Sartori, G.
- Cattelain, E.**, action of sodium amalgam on position-isomeric, monoalkyl derivatives of 5-keto-3-thion-6-benzyl-1:2:4-triazine, II, 47.
- Cattell, R. B.**, and Perkin, H. J., recurrent hyperthyroidism, III, 237.
 See also Perkin, H. J.
- Cauer, G.** See Cauer, H.
- Cauer, H.**, and Cauer, G., determination of magnesium in fog nuclei and precipitations of the atmosphere, I, 163.
- Cauldwell, E. W.**, and Anson, B. J., stapes, fissula ante fenestram, and associated structures in man. III. From embryos 6·7 to 50 mm. in length, III, 318.
 See also Anson, B. J.
- Cavagliari, G.** See English, J., jun.
- Cavallaro, L.**, cryoscopy. V. Aqueous solutions of alkali bromates and iodates. VI. Aqueous solutions of mixtures of strong electrolytes, I, 150.
- Caviness, V. S.**, Umphlet, T. L., and Royster, C. L., thiocyanates [for hypertension], III, 198.
- Cawley, J. D.** See Gray, E. le B., Jensen, J. L., and Shantz, E. M.
- Cawthorne, T. E.**, Fitzgerald, G., and Hallpike, C. S., human vestibular function. II. Directional preponderance of caloric nystagmus resulting from unilateral labyrinthectomy. III. Clinical features of Menière's disease: with reference to results of caloric tests, III, 319.
 and Hallpike, C. S., investigation and treatment of "Meniere's" disease, III, 880.
- Cecconi, R.** See Ferrari, A.
- Cecil, R. L.**, De Prume, F. J., and Kammerer, W. H., gold salts in treatment of rheumatoid arthritis, III, 422.
- Lawrence, E. A.**, and Tolstoi, E., sulphapyridine in treatment of pneumonia, III, 195.
- Cederstrom, D. J.**, differential density of ground water in ore deposition, I, 168.
- Cedwall, J. O.** See Adler, Erich, and Euler, H. von.
- Cefola, M.** See Benedetti-Pichler, A. A.
- Ceithaml, J. J.**, and Koch, F. C., comparative gonadotropin assays, and use of calcium phosphate as adsorbent in concentration of follicle-stimulating activity from pituitary gland, III, 26.
- Celani-Barry, R.** See Mancini, R. E.
- Celsi, S. A.**, reaction for calcium, I, 24.
- Cepeda, C.** See Crozatto, H.
- Cerecedo, L. R.**, and Foy, J. R., storage of pyridoxine in rats, III, 410.
- Cerkovnikov, E.**, Prelog, V., and Stern, P., chemical constitution and antiplasmodic action. VI. Heterocyclic derivatives of 8-aminoquinoline and of 8-amino-6-methoxyquinoline, II, 385.
 See also Hahn, V., and Prelog, V.
- Cerveny, W. J.** See Corson, B. B.
 See also Hahn, V. M. See Fournier, J. C. M.
- Chabert, A.** See Combes, R.
- Chabrier, P.**, N-monochlorocarbamates, II, 82. Preparation and properties of carbamidoformic esters, II, 82.
- Chace, R. R.**, structural changes in external geniculate body of rat following removal of eyes, III, 879.
- Chadwick, A. F.**, and Pacsu, E., resolution and rates of hydrolysis of *dl*-*a*-bromopropionic acid and its glycine derivatives, II, 215.
- Chadwick, D. H.** See Iddles, H. A.
- Chadwick, L. C.** See Swartley, J. C.
- Chafee, F. H.**, Ross, J. R., and Gynn, E. M., eosinophilia in fatal asthma: studies of bone marrow and myocardium, III, 163.
- Chaffin, L.** See Hall, E. M.
- Chaigneau, M.**, pyrolysis of alkali and alkaline earth salicylates *in vacuo*, I, 160.
 See also Janot, M. M.
- Chaikoff, I. L.**, Eichorn, K. B., Connor, C. L., and Entenman, C., production of cirrhosis in liver of normal dog by prolonged feeding of a high-fat diet, III, 485.
 See also Franklin, A. L., Kaplan, A., Morton, M. E., Schachner, H., Sheline, G. E., Stillman, N., Taurog, A., and Zilversmit, D. B.
- Chain, E.**, Florey, H. W., Jennings, M. A., and Williams, T. I., helvolic acid, an antibiotic produced by *Aspergillus fumigatus*, *mnt. helvola*, Yuill, III, 917.
 See also Abraham, E. P.
- Chakrabarty, N. K.** See Chandra, K.
- Chakrabarty, S. K.**, production of bursts by the meson and its dependence on meson spin, I, 247. Atmospheric absorption curves and their dependence on the nature of the primary cosmic rays, I, 270.
 See also Bhabha, H. J.
- Chakrabarty, M. K.** See Nath, M. C.
- Chakravarti, A. S.**, viscosity of mixed solutions containing three and four ionic species, I, 255.
- Chakravarti, R. N.**, action of sodium on ethyl β -methylbutane- $\alpha\beta$ -tricarboxylate. I. [Structure of methylated condensation product.] II. Structure of ethylated condensation product, II, 371.
- Chakravarti, S. N.**, and Roy, S. N., chemical investigation of hairs from medico-legal standpoint, III, 615.
- Chakravarti, S. P.**, study of band-pass effect by cathode-ray oscillograph, I, 287.
- Chakravorty, H.** See Banerjee, T.
- Chakravorty, P. N.**, and Levin, R. H., cholestryloides, II, 68.
- Levin, R. H.**, Reed, G., and Wesner, M. M., cafesterol. III. isoCafesterol, II, 307.
- Levin, R. H.**, and Wesner, M. M., cafesterol. II, II, 307.
- Levin, R. H.**, and Wesner, M. M., chemical behaviour of cafesterol, II, 40.
- Chalkley, T. S.** See Bruce, J. W.
- Challenger, F.**, biological methylation. VIII., VIIIa., and VIIIb., III, 44.
- Challinor, S. W.**, penicillin, III, 143.
- Chalmers, J. A.**, contact potentials. V. Metal-electrolyte Volta effect. VI. Single potential differences. VII. Chemical and thermal effects, I, 17. Separation of electricity in clouds, I, 104. Single potential difference at a cadmium electrode, I, 203.
- and Hume-Rothery, W.**, contact potentials, I, 203.
- Chamberlain, E. C.** See Robinson, L. F.
- Chamberlain, F. L.** See Shillito, F. H., and Sokolow, M.
- Chamberlin, D. B.** See Kaufmann, W.
- Chambers, A. H.**, respiratory quotient of liver. I. Determination of liver R.Q. in anaesthetised dogs. II. Influence of diets on R.Q., III, 397.
- Chambers, D. C.** See Spies, J. R.
- Chambers, E. L.**, pronuclear movements in echinoderm eggs, III, 79.
 See also Duncan, G. W.
- Chambers, L. A.**, Anderson, T. F., Henle, W., and Lauffer, M. A., dispersion of influenza A virus in tissue emulsions and in extra-embryonic chick fluids. II. Size of infectious unit on influenza A, III, 528.
- Ferguson, L. K.**, Harris, T. N., and Schumann, F., sulphathiazole micro-crystals, III, 262. and Henle, W., dispersion of influenza A virus in tissue emulsions and in extra-embryonic chick fluids. I., III, 528.
 See also Plotz, H.
- Chambers, L. E.** See Mudd, S.
- Chambers, R.** See Hyman, C., and Wilson, K. M.
- Chambers, W. H.** See Du Bois, E. F.
- Chambers, W. P.**, determination of mercury in phenylmercuric nitrate, II, 212.
- Chaminade, R.** See Anger, P. V., and Maze, R.
- Chance, J.**, Ogden, E., and Stoddard, K. B., effect of undercorrection and base-in prism on myopic refractive state, III, 310.
- Chand, K.** See Ray, S. N.
- Chand, R.** See Yajnik, N. A.
- Chandler, A. C.**, nutrition of tapeworms, III, 574.
- Chandler, C.** See Stout, A. B.
- Chandler, C. A.**, Fothergill, L. D., and Dingle, J. H., pattern of dissociation in *Haemophilus influenzae*, III, 211.
- Chandler, J. B.** See Simmonds, S.
- Chandler, R. E.** See Heller, C. G.
- Chandra, K.**, Chakrabarty, N. K., and Mitra, S. K., thioketone esters. X., II, 327.
- Chandrasekhar, S.**, and Neumann, J. von, statistics of gravitational field arising from a random distribution of stars. I. Speed of fluctuation, I, 79.
 See also Schonberg, M.
- Chang, F. C.** See Fieser, L. F., and Lieberman, S.
- Chang, H. L.** See Tung, J. Y.
- Chang, M. C.**, effects of stilbestrol on sperm production of adult rams, III, 31. Sperm production of pony stallion and treatment of spermatozoa *in vitro* with reference to artificial insemination of mares, III, 651.
 See also Lo, T. Y.
- Chang, S. L.**, *Entamoeba histolytica*. I. Effect of pH on encystation of *E. histolytica* in culture, III, 429.
- Chang, T. L.**, and Chien, J. Y., temperature of maximum density of heavy water, I, 197.
- Chang, T. Y.** See Snapper, I.
- Chanley, J.** See Grigsby, W. E.
- Channon, H. J.**, Mills, G. T., and Platt, A. P., action of amino-acids and proteins on liver-fat deposition, III, 904.
- Chanson, P.** See Gorodetsky, S.
- Chant, H. L.** See Stebbins, E. L.
- Chao, T. P.**, and Hwang, S. C., systematic analysis of cations without use of hydrogen sulphide, I, 208.
- Chapin, E. C.** See Price, C. C.
- Chapman, C. A.**, large magnesia-rich triphyllite crystals in pegmatite, I, 323.
- Chapman, C. J.**, use of rabbits for detection of pyrogenic substances in solutions for intravenous administration, III, 347.
- Chapman, C. W.** See Hager, G. P., and Karel, L.
- Chapman, G. H.**, lysis of precipitated fibrinogen in agar medium by staphylococci, III, 66. Determination of chromogenic property of staphylococci, III, 692.
 and Lieb, C. W., electrophoretic relationships of colon bacilli, III, 209.
- Chapman, H. D.**, and Brown, S. M., fungal infections of citrus in relation to nutrition, III, 538.
- Chapman, H. S.**, hyperparathyroidism, III, 882.
- Chapman, O. D.**, and Harris, A. E., oral lesions associated with dietary deficiencies in monkeys, III, 253.
 and Osborne, W., serological relationships between *Diplococcus pneumoniae* and *Haemophilus influenzae*, III, 282.
- Chapman, O. W.** See O'Reilly, J. N.

- Chapman, R. P., Averell, P. R., and Harris, R. R., solubility of melamine in water, I, 123.
- Chapman, R. W., ring structures of the Pliny region, New Hampshire, I, 291.
- Chappell, D. See English, J. P.
- Chapple, C. C. See Harris, T. N.
- Chapple, E. D., analysis of industrial morale, III, 766.
- Chaput, E. P. See Campbell, K. N.
- Char, T. L. R., photoreduction of uranyl nitrate by tartaric acid, I, 159. Photo-oxidation of quinine, I, 206.
- Charet, R. See Banowitch, M. M.
- Chargaff, E., and Bendich, A., coagulation of fibrinogen, III, 787.
- Bendich, A., and Moore, D. H., ultracentrifugal isolation from lung tissue of a macromolecular protein component with thromboplastic properties, III, 84.
- and Sprinson, D. B., deamination of serine by *B. coli*, III, 602.
- Charipper, H. A. See D'Angelo, S. A., and Vollmer, E. P.
- Charkey, L. W., and Zander, D. V., pressure wash bottle for volatile solvents, I, 103.
- Charles, A. F. See Scott, D. A.
- Charlesworth, E. H., McRae, J. A., and Macfarlane, H. M., synthesis of 2-ketocyclohexylsuccinic acid and related substances. II. Syntheses involving cyclohexanone, II, 196.
- See also McRae, J. A.
- Charley, H. See Puffer, M. E.
- Charlton, E. E., and Westendorp, W. F., million-volt portable radiographic X-ray unit, I, 318.
- Chase, A. M. and Hagan, W. H., photochemical and thermal reactions of visual purple in absence of oxygen, III, 386.
- Chase, C. T. See Snell, C. G.
- Chase, F. E. See Lochhead, A. G.
- Chase, M. W., production of local skin reactivity by passive transfer of antiprotein sera, III, 852.
- Chasis, H., and Redish, J., function of separate kidneys in hypertension, III, 305.
- Chasoff, J. See Held, I. W., and Touroff, A. S. W.
- Chassin, M. See Flexner, J.
- Chatard, F. E. See Kenney, E. L.
- Chatfield, C. See Berryman, G. H.
- Chatt, J., and Wynne, W. P., 1:3:5:7-tetrinitronaphthalene and isomeric tetrinitro-derivatives obtained from 2:6-dinitronaphthalene by nitration, II, 86.
- Chattaway, F. W., Happold, F. C., Lythgoe, B., Sandford, M., and Todd, A. R., nutritional requirements of *C. diphtheriae* and *L. casei*, III, 773.
- Happold, F. C., and Sandford, M., microbiological assay of riboflavin; influence of inorganic constituents and unknown growth factors, III, 665.
- Chatterjee, B., and Sen, A., variation in electrochemical properties of hydrogen-clay soils with temperature, I, 276.
- See also Mukherjee, J. N.
- Chatterjee, R., alkaloid of *Berberis umbellata*, Wall. II. and III., II, 18, 177. Histological distribution of alkaloids in Himalayan *Berberes*, III, 447.
- Chaudhuri, D. K. See Ghosh, B. N.
- Chaudhuri, S., action on haemopoietic system of monkeys of drugs of sulphonamide group administered in therapeutic doses, III, 584.
- Chaudhury, S. G., Donnan membrane equilibrium, I, 276.
- Chaudron, G. See Moreau, L.
- Chaves, I. M., and Mattoso, I. V., determination of thiamin, modification of Schopfer technique, III, 255.
- See also Mattoso, I. V.
- Chayes, F., alkaline and carbonate intrusives near Bancroft, Ontario, I, 292.
- Cheever, F. S., and Morgan, H. R., tumour immunity as investigated by intraocular inoculation of the Brown-Pearce carcinoma, III, 403.
- Cheever, F. S., and Willmert, G. P., age of tissue in agar-salt cultures and multiplication of virus of herpes simplex, III, 358.
- Chen, A. L., Powell, C. E., and Chen, K. K., [pharmacological] action of calycanthine, III, 592.
- Chen, G., and Geiling, E. M. K., antidiuretic effect of posterior pituitary extract in hypophysectomised rats, III, 808.
- Chemistry and pharmacology of melanophore hormone of pituitary gland, III, 809.
- Geiling, E. M. K., and Oldham, F. K., effect of posterior pituitary extract on water uptake in frogs after hypophysectomy and infundibular lesions, III, 809.
- Chen, H. N. See Shen, C. W.
- Chen, K. D. See Failey, R. B.
- Chen, K. K., Anderson, Robert C., and Robbins, E. B., *K*-strophantidin- β , *K*-strophantidone, periplocamarin, and periplocin, III, 675.
- Elderfield, R. C., Fried, J., and Uhle, F. C., synthetic glycosides of digitoxigenin, digoxigenin, and periplogenin, III, 675.
- Hargreaves, C. H., and Robbins, E. B., comparison of digoxin, digilanids A, B, and C, and deacetyl digilanids A and B, III, 137.
- and Steldt, F. A., cerberin and cerberoside, the cardiac principles of *Cerbera odollam*, III, 343.
- See also Anderson, Robert C., Chen, A. L., Henderson, F. G., and Steldt, F. A.
- Chen, P., and Cross, E. J., identification of sulphonic acid reduction products of azo-dyes, II, 259.
- Chen, Y. C., and Shen, S. S., determination of potassium with zinc cobaltinitrite, I, 208.
- Removal of phosphate ions before determination of sodium by zinc uranyl acetate method, I, 208.
- Cheney, G., cinchophen gastric ulcers in chicks, III, 177.
- Cheng, A. L. S. See Weatherby, L. S.
- Chenoweth, A. I. See Lord, J. W., jun.
- Chenoweth, M., jun. See Poth, E. J.
- Cherry, W. B., Edwards, P. R., and Bruner, D. W., two new *Salmonella* types with similar somatic antigens, III, 849.
- Chester, A., La Belle, G. C., and Himwich, H. E., relative effects of toxic doses of alcohol on foetal, newborn, and adult rats, III, 588.
- Chesley, F. G., cold-cathode X-ray diffraction tube, I, 138.
- See also Buerger, M. J.
- Chesluk, H. M. See Bernstein, M.
- Cheyne, D. G., man-power: medical aspects in world army to-day, III, 817.
- Chialvo, R. J. See Taylor, R. M.
- Chibnall, A. C., amino-acid analysis and structure of proteins, II, 75.
- Rees, M. W., and Williams, E. I., dicarboxylic and basic amino-acids of edestin, ov-albumin, and β -lactoglobulin, II, 346.
- Total nitrogen content of ovalbumin and other proteins, II, 404.
- See also Bailey, K.
- Chick, A. J. See Lynn, J. G.
- Chick, H. See Peters, R. A.
- Chidekel, S. S. See Umanski, J. S.
- Chien, J. Y. See Chang, T. L.
- Child, C. M., oxidation-reduction patterns in amphibian and teleost development, III, 79.
- Childers, N. F., and Brody, H. W., environment-control chamber for study of photosynthesis, respiration, and transpiration in horticultural plants, III, 701.
- and Schneider, G. W., effect of water supply on the rate of photosynthesis, transpiration, and respiration of apple leaves, III, 700.
- White, D. G., and Southwick, F. W., influence of excess water in the soil on the transpiration and apparent photosynthesis of young apple trees, III, 612.
- See also Marshall, G. E., and Southwick, F. W.
- Childs, A., and Eichelberger, L., distribution of water and electrolytes between bloods, fluids, and skeletal muscle in pregnant dogs, III, 634.
- Childs, W. H., photosynthesis, transpiration, and growth of apples as influenced by concentrations of oxygen and carbon dioxide in soil atmosphere, III, 612.
- Chinard, F. P., action of o-iodosobenzoic acid on bacteria, III, 522.
- See also Hellerman, L.
- Chinn, H. See Bellows, J. G.
- Chirnoagă, E. See Irimescu, I.
- Chirnside, R. C., Dauncey, L. A., and Proffitt, P. M. C., separation of metals by the mercury cathode: chromium, I, 232.
- See also Pritchard, C. F.
- Chitre, R. G., and Khanolkar, V. R., esterase (butyric) activity. II. Esterase content of livers of mice and its excretion in strains susceptible or insusceptible to mammary cancer, III, 819.
- See also Khanolkar, V. R.
- Chiu, S. L., superficial hepatic branches of vagi and their distribution to extrahepatic biliary tract in certain mammals, III, 781.
- Chivers, E. M., anaesthetic explosion due to static electricity, III, 763.
- Chlopin, V. G., and Abidov, S. A., radioactivity and helium content of beryllium, boron, and lithium minerals of the U.S.S.R., I, 105.
- Chodoff, E. J. See Bradshaw, H. H.
- Chodoff, P. See Mutson, J. A.
- Cholak, J., and Bambach, K., measurement of industrial lead exposure by analysis of blood and excreta of workmen, III, 913.
- Hubbard, D. M., and Story, R. V., determination of aluminium in biological material, III, 448.
- and Story, R. V., corrections for residual impurity and background in spectrochemical analysis, I, 102.
- Chornock, C., Guerrant, N. B., and Dutcher, R. A., effect of manganese on calcification in the growing rat, III, 253.
- Chornock, F. W. See Elsom, K. A., and Machella, T. E.
- Chorniyak, J. See Sayers, R. R.
- Chouké, K. S., and Whitehead, R. W., wound healing especially muscle and fascia repair, III, 872.
- Chow, B. F., chemistry of thylakentrin (follicle-stimulating hormone of anterior pituitary), III, 561.
- Chowdhury, K., and Bose, C., ultra-violet absorption of dyes in solution, and influence of neutral salts on it, I, 271.
- Chown, B., and Norris, M., virus of Western equine encephalitis in spinal fluid, III, 608.
- Chrétien, A., and Longi, Y., reduction of sodium nitrate by calcium, I, 160.
- Christ, C. L., lecture demonstration of X-rays and cathode rays, I, 168.
- and Harker, D., X-ray crystallographic studies of atioporphyrin-1, I, 251.
- Christlein, W. See Pfeiffer, P.
- Christensen, B. E. See Dimick, K. P., and Petersen, J. W.
- Christensen, B. F., and Wong, R., determination of hydrogen sulphide in stomach contents of experimental animals, III, 564.
- Christensen, E. H. See Asmussen, E.
- Christensen, K., renal changes in albino rat on low-choline and choline-deficient diets, III, 179.
- Christensen, L. R., streptococcal fibrinolysis and fibrinolysis, III, 147.
- Christensen, S., superficial vessels of tympanic membrane, III, 474.
- Christenson, A. L. See Friedman, H.
- Christian, H. A., non-specificity of glomerular lesions of kidney, III, 398.
- Christie, A. See Young, W. R.
- Christie, R. V., analgesic action of pethidine by mouth, III, 763.
- Christman, A. A. See Coryell, M. A., and Roberts, E.
- Christophers, S. R., treatment of malaria, III, 195.
- and Fulton, J. D., dissociation constants of plasmochin, III, 419.
- Christy, C. J. See Schreiner, B. F.

- Chu, E. J. H.**, and **Chu, J. C.** symmetrical diaryldialkylethanediols. I. $\beta\gamma$ -Diphenylbutane- $\beta\gamma$ -diol, II, 365.
Chu, H. See **Hsu, S.**
Chn, H. I. See **Lin, S. H.**
Chu, H.-Y., ciliary movement and circulation of cerebrospinal fluid within brain ventricles in larval and adult anurans, III, 16.
Chu, J. C. See **Chu, E. J. H.**
Chu, J. H. See **Chuang, C. K.**
Chu, L. J. Y. See **Minlon, H.**
Chu, P. C. See **Lottermoser, A.**
Chuang, C. K., **Chu, J. H.**, and **Kao, Y. S.**, syntheses in sterol and sex hormone group. IV. Synthesis of 3- β -naphthylcyclopentanone derivatives, II, 372.
Chudgar, M. C., and **Shah, N. M.**, aluminium chloride, new reagent for condensation of β -ketonic esters with phenols. VIII. Condensation of resacyl- and gallacyl-phenones (4-acyl-resorcinol and -pyrogallols) containing long-chain acyl groups, II, 138. Reduction of $-\text{CH}(\text{OH})\cdot\text{CCl}_3$ group attached to benzopyrone nucleus. II, II, 138.
Chung, L. See **Locke, A.**
Chunn, C. J., **Boals, R. T.**, and **Harkins, H. N.**, relative effect of blood given by jejunostomy and ileostomy, III, 565.
 and **Harkins, H. N.**, experimental alimentary azotæmia: comparative effects of red cells and plasma, III, 564.
Church, R. E., and **Hinton, J. W.**, follow-up results in sub-total gastric resection for ulcer, III, 176.
 See also **Abrahamson, R. H.**
Churchill, E. S. See **Mallmann, W. L.**
Churchill, S. W., **Collamore, W. G.**, and **Katz, D. L.**, phase behaviour of acetylene-ethylene system, I, 16.
Chytrek, E. See **Hartmann, Hermann.**
Ciampa, T. See **Burdick, H. O.**
Ciampa, V. See **Burdick, H. O.**
Cicardo, V. H., changes in cell permeability to potassium and water due to adrenal gland, III, 884.
Fendrik, B., and **Torino, A.**, effect of convulsive drugs on liberation of potassium by brain of dogs, III, 796.
 and **Gurevich, E.**, changes in electrolytes in denervated muscles, III, 792.
 and **Torino, A.**, liberation of potassium by stimulation of brain in dog, III, 796.
Cicconi, M., rice bran extract as a medium for bacteria, III, 144. Failure of pigment production by *P. pyocyanea* in a new rice bran medium, III, 146.
Ciereszko, L. S. See **Kazal, L. A.**
Cignoli, F., ammoniacal copper sulphate for intravenous injection in copper chemotherapy, III, 52.
Cinberg, B. L., androgens in treatment of dysmenorrhœa, III, 481. Case of secondary amenorrhœa, III, 648.
Cinelli, A. P., influence of ingested bile on increase in blood-phosphatase produced by biliary obstruction, III, 815.
Cines, M. R. See **Reyerson, L. H.**
Cinneide, R. O., condensation of pyromucic acid with *N*-methylolamides, II, 308.
Ciocca, B., and **Dumontel, E.**, action of copper on ethyl malonate and on 5:5-diethyl-barbituric acid [exposed to the air], II, 141.
Ciochima, J., densitometer, I, 287.
Cioranescu, E. See **Nenitzescu, C. D.**
Cipriani, A., and **Brophy, D.**, determining cerebrospinal fluid-protein by photo-electric colorimeter, III, 875.
Cirulis, A., and **Straumanis, M.**, azides of organic bases, II, 120.
Ciusa, R., and **Di Fonzo, M.**, characteristic reaction of phenylmethylhydrazones of aromatic aldehydes, II, 134.
Claesson, S., adsorption analysis of triglycerides and fatty acids, I, 124.
 See also **Tiselius, A.**
Clapham, B. See **Korenchevsky, V.**
Clapp, J. W. See **Iddles, H. A.**
Clapp, (Miss) M. A. See **Tipson, R. S.**
- Clapp, M. J.** See **Haywood, C.**
Clapp, M. P., *in-vitro* effect of tyrothrinicin and tyrocidine hydrochloride on polymorpho-nuclear leucocytes, III, 342.
Clapp, R. C. See **Fieser, L. F.**
Clapper, M., and **Myers, G. B.**, clinical manifestations of Weil's disease with reference to meningitis, III, 874.
Clar, E., aromatic hydrocarbons and their derivatives. XXX. Syntheses in perylene series. XXXI. Syntheses in pentacene series. XXXII. Influence of angular annellation on absorption spectra of aromatic hydrocarbons. XXXIII. Synthesis of tetracene, I, 218; II, 126, 235, 268.
Clark, A. L., and **Katz, L.**, resonance method of measuring ratio of specific heats of a gas, C_p/C_v , IV, I, 148.
Clark, A. M. (Glasgow), **Colebrook, L.**, **Gibson, T.**, and **Thomson, M. L.**, penicillin and propamidine in burns, III, 905.
Clark, A. M. (Melbourne), effects of removing nucleus from amoeba, III, 368.
Clark, B. B., **Van Loon, E. J.**, and **Morrissey, R. W.**, acute experimental aniline intoxication, III, 836.
 See also **Martin, S. J.**
Clark, C. F. See **Bryan, C. S.**, and **Scheidenhelm, E. C.**
Clark, C. W., traumatic arterial spasm, III, 869.
Clark, D., **Powell, H. M.**, and **Wells, A. F.**, crystal structure of phosphorus pentachloride, I, 7.
Clark, D. E. See **Dragstedt, L. R.**
Clark, E., and **Nagler, F. P. O.**, haem-agglutination by viruses: range of susceptible cells with reference to agglutination by vaccinia virus, III, 852.
Clark, Eugene, pancreatitis in acute and chronic alcoholism, III, 245.
Clark, E. P., quassain. IV. Minor constituent of Jamaican quassia wood, II, 180. Occurrence of rotenone and related substances in seeds of berbera tree; separation of deguelin and tephrosin, III, 363.
Clark, F. E., and **Mitchell, R. B.**, cell inclusions of *globiforme* and related types of soil micro-organisms, III, 278.
 and **Smith, N. R.**, cultural requirements for production of black pigments by bacilli, III, 205.
Clark, F. M., growth of thermophilic anaerobes in Brewer's medium, III, 918.
Clark, G. E. See **Renshaw, R. J. F.**
Clark, G. L., **Pish, G.**, and **Seabury, R.**, tension-compression device for quantitative X-ray diffraction evaluation of strain in metals and a calibrated series of aluminium alloys, I, 286.
Clark, H. E. See **Platt, J. R.**
Clark, J. C., and **Esling, R. H.**, [preparation of] Ross filter foils by evaporation, I, 26.
Clark, J. D. See **Unna, K.**
Clark, J. H. See **Allen, C. F. H.**
Clark, J. K., **Flippin, H. F.**, and **Murphy, Franklin D.**, studies on 2-sulphanilamido-4-methylpyrimidine (sulphamerazine, sulphamethyldiazine) in man, III, 907.
 See also **Murphy, Franklin D.**
Clark, P. F., **Rasmussen, A. F.**, **jun.**, and **White, Weldon C.**, purification of poliomyelitis virus, III, 288.
Clark, R. E. D., long-chain molecules in aqueous urea solution, I, 255. Effects due to anisotropy of colloidal particles, I, 276.
Clark, R. H. See **Fee, E. W.**
Clark, R. L., and **Hamilton, C. S.**, arsenicals derived from acetophenone, II, 283.
Clark, R. O., identification of rust on iron and steel, I, 264.
Clark, W. B., vitamin-B complex in ophthalmology, III, 553.
Clark, W. E. Le G., neuronal regeneration in central nervous system. I. Influence of spinal ganglia and nerve fragments grafted in brain. II. Insertion of peripheral nerve stumps into brain, III, 98, 383.
Clark, W. G., **Gleason, D. F.**, **Greenberg, G.**, and **Levitian, N. I.**, titrimetric micro-determination of chloride, sodium, and potassium in a single tissue or blood sample, III, 76.
Levitian, N. I., and **Strakosch, E. A.**, solubility and pH data of commonly used sulphonamides, III, 262.
 and **MacKay, E. M.**, influence of adrenalectomy on rate of glucose absorption from intestine, III, 246.
Stavitsky, A., and **Tsuchiya, H. M.**, producing open skin wounds, uniformly infected with staphylococci, suitable for local chemotherapy studies, III, 849.
 See also **Strakosch, E. A.**, and **Tsuchiya, H. M.**
Clarke, A. P. W., and **Cleghorn, R. A.**, tissue changes in adrenal insufficiency and traumatic shock, III, 390.
Clarke, C. D., and **Stiner, F. M.**, control of expansion and contraction of rubber casts, III, 928.
 See also **Figge, F. H. J.**
Clarke, D. G. See **Whitmore, F. C.**
Clarke, E., and **Selye, H.**, action of steroid compounds on vaginal epithelium of rat, III, 30. Overt and masked manifestations of folliculoid hormones, III, 811.
Clarke, E. F. See **Morton, A. A.**
Clarke, G. J. See **Bischoff, Fritz.**
Clarke, H. T. See **McCune, D. J.**
Clarke, J. R., jun., and **Hanna, C. M.**, treatment of rhus poisoning by alcoholic extracts controlled by preliminary patch tests, III, 290.
Clarke, M. F., and **Lechycka, M.**, biological assay of pyridoxine (vitamin-B₆), III, 666. See also **Light, A. E.**
Clarke, R. L. See **McElvain, S. M.**
Clarke, R. T. See **Powers, E. B.**
Clarke, S. L. See **Kennedy, J. A.**
Clarke, T. W., allergic manifestations in central nervous system [and leukopenic index], III, 164.
Clarke, W. F. See **Wells, L. S.**
Claudatus, I., apparatus for determination of oxidation-reduction potential and pH *in vivo* by a single puncture, III, 704.
Claude, A., and **Potter, J. S.**, isolation of chromatic threads from resting nucleus of leukæmic cells, III, 569.
Clausen, H. J., effect of progesterone and deoxycorticosterone on accessory sex organs of castrate male guinea-pig, III, 31.
Clausen, N. M., **Longley, B. J.**, **Green, R. E.**, and **Tatum, A. L.**, similarities of several types of bismuth preparations used in therapy of experimental syphilis, III, 514. See also **Longley, B. J.**
Clausen, S. W., **Baum, W. S.**, **McCoord, A. B.**, **Rydeen, J. O.**, and **Breese, B. B.**, mobilisation by alcohols of vitamin-A from its stores in tissues, III, 406.
Clay, E. I. See **Meyer, B. S.**
Claypool, L. L., and **Keefer, R. M.**, colorimetric method for carbon dioxide determination in respiration studies, III, 536.
Clayson, C., preventive and social aspects of tuberculosis, III, 608.
Clayson, D. H. F., enzymic degradation of cell wall substances. I.—III., III, 142, 273, 769.
Clayton, M. M., and **Borden, R. A.**, availability for human nutrition of vitamin-C in raw cabbage and home-canned tomato juice, III, 502.
Clayton, T. M., tetraethylthiuram monosulphide (T.E.T.M.S.) in scabies, III, 510.
Clayton-Cooper, B. See **Williams, R.**
Clee, D. A., morphology and anatomy of *Flagellata conica* in relation to mechanism of absorption and conduction of water, III, 697.
Clegg, J. W., and **King, E. J.**, haemoglobin determination by alkaline haematin method, III, 371.
Clegg, R. E. See **Bell, T. A.**
Cleghorn, R. A. See **Brunycastle, D. D.**, and **Clarke, A. P. W.**
Cleland, (Miss) E. S. See **Billman, J. H.**

- Clerf, L. H., foreign bodies in air and food passages, III, 163.
- Cleveland, F. F., Raman spectra of hydrocarbons. I. Δ^a -Octene, *cis*- + *trans*- Δ^b -octene, *trans*- Δ^c -octene, *trans*- Δ^d -octene, Δ^e - and Δ^f -octinene. II. β -Methyl- Δ^a -heptene and ζ -methyl- Δ^a -heptene. III. Disobutylene, cyclohexene, and dipentene, I, 116, 193, 249.
See also Saunders, R. H., and Taufen, H. J.
- Clifford, P. A., [determination of] lead; dithizone method and its interferences, I, 185.
See also White, W. B.
- Clifton, C. E., utilisation of amino-acids and related compounds by *Clostridium tetani*, III, 434.
- and Loewinger, I. E., sulphanylamine activity against *E. coli* under anaerobic conditions. III, 830.
- and Logan, W. A., relation between assimilatory and respiration in suspensions and cultures of *Escherichia coli*, III, 209.
- Climenzo, D. R., and McChesney, E. W., role of inositol and *p*-aminobenzoic acid in normal lactation, III, 325.
- and MacLeod, J., leucotoxic action of benzene III, 835.
See also Gorham, L. W., and Lyons, J. J. A.
- Clinch, P. E. M., identity of top-necrosis virus in Up-to-Date potato, III, 148.
- Cline, J. K. See Swann, H. G.
- Clinton, E. See Findley, T.
- Clinton, M., jun., Eisenberg, H., Stein, K. E. and Thorn, G. W., effect of synthetic deoxycorticosterone acetate therapy on plasma volume and electrolyte balance in normal dogs, III, 390.
- and Thorn, G. W., effect of 11-deoxy-17-hydroxycorticosterone on renal excretion of electrolytes, III, 559.
See also Thorn, G. W.
- Clinton, R. O., and Geissman, T. A., gallaldehyde tribenzyl ether, II, 163.
- Clishby, K. H. See Richter, C. P.
- Cloke, J. B., and Wolff, R. M., by-product $\alpha\gamma$ -butylene glycol, II, 250.
- Cloquette, L. See Swales, W. E.
- Clotofski, E., and Herr, W., beech bark (*Fagus sylvatica*). III, II, 39.
- Weikert, H., and Nick, H., beech bark (*Fagus sylvatica*). I, II, 402.
- Cloudman, A. M., reactions of hybrid and parabiotic pseudo-hybrid mice to inoculations of tumour C198, III, 749.
- Clow, A. See Clow, N. L.
- Clow, N. L. and Clow, A., George Macintosh (1739—1807) and Charles Macintosh (1766—1842), I, 139.
- Clusius, K., and Faber, G., molar heat, heats of transition, fusion, and vaporisation, moment of inertia, and entropy of monogermane, GeH_4 , I, 34.
- and Haimerl, H., exchange of Cl of $H^{36}Cl$ with $AsCl_3$, PCl_3 , $POCl_3$, CCl_4 , $SiCl_4$, S_2Cl_2 , and KCl , I, 64.
- and Popp, L., specific heats and latent heats of fusion and transition of the condensed gases CD_4 and CH_3D , I, 56.
- Cluver, E. H., De Jongh, T. W., and Jokl, E., physiological sub-determinants of reaction of man to physical training; analysis of measurements of 171 South African Police recruits, III, 593.
- De Jongh, T. W., Jokl, E., and Jooste, E., growth of physical efficiency, III, 593.
- Goedvold, C., and Jokl, E., physiological basis of endurance, III, 593.
- Clyne, R. M., epidemiology of meningococcus meningitis, III, 604.
- Coates, C. W. See Nachmansohn, D., and Weisman, A. I.
- Coates, H., Cook, A. H., Heilbron, I. M., Hey, D. H., Lambert, A., and Lewis, F. B., therapeutic agents of quinoline series. I. Monopyridylquinolines. III. Methoxy-, hydroxy-, and alkyl-pyridylquinolines, II, 391.
- Coates, H., Cook, A. H., Heilbron, I. M., and Lewis, F. B., therapeutic agents of quinoline series. VI. Quinolyl-thiazoles, -amidines, and -pyrroles, II, 391.
- Coates, M. S. See Thompson, R. L.
- Cobb, S., neuropsychiatry for 1942, III, 308.
- Cobb, W. M., cranio facial union and maxillary tuber in mammals, III, 297.
- Cobbett, N. G., and Smith, C. E., eradication of sheep ticks, *Melophagus ovinus*, by one dipping in dilute derris-water or cube-water dips, III, 910.
- Coblenz, L. M., detection of production of acetyl methyl carbinal, III, 771.
- Coburn, A. F., and Kapp, E. M., effect of salicylates on precipitation of antigen with antibody, III, 360.
- and Moore, L. V., salicylate prophylaxis in rheumatic fever, III, 140. Nutrition as conditioning factor in rheumatic state, III, 820.
See also Kapp, E. M.
- Coburn, D. R., nature of type C botulinus toxin fractions, III, 62.
- Cocconi, G., and Tongiorgi, V., electron components of cosmic radiation and instability of mesotrons, I, 3. Spectrum of cosmic radiation at 2200 m. above sea level, I, 47.
- Cochran, F. D., and Vereen, T. V., flowering and bulb production in Creole Easter lily, III, 698.
- Cochran, H. L., influence of photo-period on time of flower primordia differentiation in Perfection pimento (*Capsicum frutescens*, L.), III, 536.
- Cochran, R. M. See Dunn, F. L.
- Cochran, W., De Vaughn, N. M., and Allen, L., corneal vascularisation in arboflavinosis, III, 553.
- Cochrane, C. C. See Barnes, R. P.
- Cochrane, R. F. See Adams, J. M.
- Cockburn, H. S., treatment of bovine mastitis by irrigation with proflavine sulphate, III, 264.
- Cockburn, R. S., stilboestrol and lactation, III, 172.
- Cocker, W., hydroxyalkylamino-acids, II, 320.
- Cocking, T. T., colour reactions for stilboestrol, II, 212.
- Coco, R. M., foetal survival after injection of antuitrin S in pregnant rats and rabbits, III, 243.
See also Stuckey, J.
- Cocora, D. See Nenitzescu, C. D.
- Code, C. F., and Varco, R. L., prolonged action of histamine [in beeswax on gastric secretion], III, 813.
- See also Kottke, F. J.
- Coe, F. O. See Yater, W. M.
- Coe, G. C. See Willis, D. A.
- Coe, W. R., sexual differentiation in molluscs. I. Pelecypods, III, 738.
See also Fox, D. L.
- Coffee, W. B. See Wilson, P. W.
- Coffey, W. L., jun. See Hirschboeck, J. S.
- Cogan, D. G., clearing of oedematous corneas by glycerin, III, 731.
See also Kinsey, V. E.
- Coggeshall, L. T., and Maier, J., effect of sulphonamides and other compounds against experimental influenza and poliomyelitis infections in mice, III, 340. Determination of activity of drugs against malaria parasite, III, 342.
See also Maier, J.
- Coggeshall, N. D., and Jordan, E. B., experimental mass spectrometer, I, 239.
See also Jordan, E. B.
- Coghill, G. E., and Watkins, R. W., periodicity in development of threshold of tactile stimulation in *Ambystoma*, III, 644.
- Coghlan, C. A. See Skinner, G. S.
- Cohen, A. A. See Platt, J. R.
- Cohen, A. E. See Friedman, A. J.
- Cohen, A. L. See Niel, C. B. van.
- Cohen, B., Halbert, S. P., and Perkins, M. E., pneumococcal haemolysin: preparation of concentrates, and their action on red cells, III, 64.
- Cohen, D. See Oppenheim, M.
- Cohen, D. L. See Lowry, O. H.
- Cohen, E. L., glycogen disease in children, III, 670.
- Cohen, H. G. See Witzberger, C. M.
- Cohen, I., agenesis of cerebellum, III, 466.
- Cohen, J. See Jablons, B.
- Cohen, P. P., Hekhuis, G. L., and Sober, E. K., transamination in liver from rats fed butter-yellow, III, 39.
See also Albaum, H. G.
- Cohen, R. H. L., and Spencer, J., sulphapyridine anuria, III, 760.
- Cohen, S. G. See Bartlett, P. D.
- Cohen, S. S., electrophoretic mobilities of deoxyribose- and ribose-nucleic acids, I, 128. New crystalline forms of tomato bushy stunt virus, III, 359.
- Cohn, A. E. See Burch, G. E., and Neumann, C.
- Cohn, C., sodium *d*-lactate tolerance test of liver function, III, 397.
See also Soffer, L. J.
- Cohn, G., and Hedwall, J. A., influence of transition from ferromagnetism to paramagnetism on catalytic activity, I, 194.
- and Kolthoff, I. M., determination of pyrophosphate by precipitation with cadmium and polarographic measurement of cadmium in the precipitate, I, 99. Determination of calcium by precipitation with picrolonic acid and polarographic measurement of residual picrolonic acid, I, 208. Amperometric titration of picrolonic acid and indirect volumetric determination of calcium by precipitation as picrolonate and back titration of excess of picrolonic acid with methylene-blue, II, 288.
- Cohn, G. M. See Finkler, R. S.
- Cohn, M. See Fishman, W. H., Schenck, J. R., and Simmonds, S.
- Cohn, M. L. See Corper, H. J.
- Cohn, R., device for application of scalp electrodes in electroencephalography, III, 14.
- Cohn, W. E. [with Nutt, A. L.], determination of haemoglobin in tissue extracts or other turbid solutions, III, 616.
See also Brues, A. M., and Cope, O.
- Colburn, A. P. See Jones, C. A.
- Cole, E. C., haematoxylin stains, III, 785.
- Cole, F. L., and Forsee, J. H., cavernous hemangioma of spleen, III, 463.
- Cole, H. H., and Hart, G. H., diagnosis of pregnancy in mare by hormonal means, III, 650.
- Cole, L. C., toleration of high temperature in lizards with reference to adaptive coloration, III, 487.
- Cole, M. L. See Smith, W. A.
- Cole, S. L., sulphaguanidine toxicity, III, 584.
- Cole, V. V., effect of calcium and strontium salts on action of sodium pentobarbital in rats, III, 197. Prolonged action of barbiturates, III, 764.
- and Harned, B. K., adrenal and pituitary weights in rats with reduced glucose tolerance, III, 170.
- Cole, W. F. See Prider, R. T.
- Cole, W. H., and Brunner, R., anaesthesia in thyroidectomy for thyrotoxicosis, III, 196. and Howe, J. S., pancreaticohepatic syndrome, III, 396.
- Knapp, M. E., and Pohl, J. F., Kenny method of treatment for infantile paralysis, III, 97. See also Allison, J. B.
- Cole-Rous, M., calcification, ossification, and decalcification, III, 154.
See also Goetz, R. H.
- Colebrook, L. See Clark, A. M.
- Coleman, H. S., and Yeagley, H. L., diffusion of air through monel metal, I, 179.
- Coleman, M. B. See Scheifstein, J. I.
- Colin, E. C., hair direction in mammals; embryogenesis of hair follicles in guinea-pigs, III, 857.
- Coll, A., and De Larechea Munoz, J., cyclic vaginal response following administration of stilboestrol in rats, III, 739.
See also De Larechea Munoz, J.
- Collamore, W. G. See Churchill, S. W.

- Collander, R., diffusion and "adenoid" activity as factors in intake of ions by plant cells, III, 291.
- Collard, H. B. See Beattie, J.
- Collard, C., ambrettolide and its isomerides. II. Δ^{α} - and Δ^{β} -isoAmbrettolic acids and their lactones. III. Synthesis of ζ -dihydroxyhexadecanoic acid, II, 251, 318. Δ^{α} -Undecenoic acid, II, 318.
- Collen, M. F., mortality in diabetic coma, III, 193.
- Coller, F. A., Kay, E. B., and MacIntyre, R. S., regional lymphatic metastasis of carcinoma of rectum, III, 492.
- and Maddock, W. G., water and electrolyte balance, III, 160.
- Collery, L. See Gatenby, J. B.
- Collier, E., poisoning by chlorinated naphthalene, III, 766.
- Collier, H. B., and Allen, D. E., enzyme inhibition by derivatives of phenothiazine. II. Inhibition of choline-esterase, III, 141.
- Allen, D. E., and Swales, W. E., fate of phenothiazine in domestic animals, III, 671. See also Swales, W. E.
- Collier, H. O. J., Fulton, J. D., and Innes, J. R. M., oedema of mice infected with *Trypanosoma cruzi*, and accompanying pathological lesions, III, 276.
- Collings, W. D. See Swann, H. G.
- Collins, C. G., Weed, J. C., and Collins, J. H., treatment of spontaneous, threatened, or habitual abortion, III, 173. See also Russ, J. D.
- Collins, D. C., right paraduodenal hernia; surgical repair and recovery, III, 449.
- Collins, E. N., and Ward, G. J., current trends in treatment of jejunal ulcer, III, 653.
- Collins, G. See Knott, E. M.
- Collins, J. H. See Collins, C. G.
- Collins, J. R., and Bock, R. O., determination of optical constants of metals by reflectivity measurements, I, 238.
- Collins, R. S., cummingtonite and gedrite from Sutherland, I, 27.
- Collins, V. J., Gardner, W. U., and Strong, L. C., experimental gastric tumours in mice, III, 747. See also Strong, L. C.
- Collip, J. B., pituitary gland in relation to metabolism, III, 239. See also Neufeld, A. H.
- Colman, C. P., industrial eye efficiency in war programme, III, 384.
- Colonna, M. See Mangini, A.
- Coloviras, G. J., jun., West, W. T. and Armour, J. C., local treatment of burns with sulphadiazine spray, III, 418.
- Colewick, S. P., and Kalckar, H. M., role of myokinase in transphosphorylations. I. Enzymic phosphorylation of hexoses by adenyl pyrophosphate, III, 598.
- Colquhoun, T. T., and Stephen, V. A., air-conditioned experimental cabinet, I, 288.
- Colston, J. A. C., and Satterthwaite, R. W., preoperative use of sulphathiazole [in urology], III, 582.
- Colton, N. H., Segal, H. I., Steinberg, A., Schechter, F. R., and Pastor, N., management of obesity with emphasis on appetite control, III, 904.
- Colwell, A. R., course of diabetes mellitus, III, 193.
- Colwell, C. A., and Youmans, G. P., precipitin formation in guinea-pig, III, 443. See also Youmans, G. P.
- Colwell, E. V., relation of aerobiosis to fermentation of mannitol by staphylococci, III, 213.
- Coman, D. R., human neoplasms in tissue culture, III, 331.
- Comar, C. L., spectrophotometric analysis of plant extracts for chlorophyll-a and -b, III, 219.
- Benne, E. J., and Buteyn, E. K., calibration of photo-electric colorimeter for determination of chlorophyll; relation between $\mu\text{g}/\text{ml}$ of standards and accuracy of analytical results, III, 856.
- Comar, C. L., See also Zscheile, F. P.
- Combes, F. C., bacterial filtrates in treatment of cutaneous infections, III, 357.
- and Behrman, H. T., use of vitamin-A in keratosis blennorrhagica, III, 310.
- Combes, R., Brunel, A., and Chabert, A., protein metabolism in plants cultivated under light of varying intensity, III, 444.
- Combes, T. J. C., effect of dinitrophenol on hypercalcaemia produced by parathormone, III, 806. Effect of temperature on hypercalcaemia produced by parathormone, III, 806.
- Combs, G. F., Norris, L. C., and Heuser, G. F., interrelationship of manganese, phosphatase, and vitamin-D in bone development, III, 258.
- Comings, E. W. See Briggs, S. W.
- Compere, E. L. See Adams, C. O.
- Compton, A. H., physical differences between types of penetrating radiation, I, 3.
- Conn, E. S. See Conn, J. W.
- Conn, H. J., and Conn, J. E., value of pigmentation in classifying *Actinomycetes*, III, 429.
- Conn, J. E. See Conn, H. J., and Zobell, C. E.
- Conn, J. W., Conn, E. S., and Johnston, M. W., blood-sugar levels and carbohydrate combustion in normal men [action of adrenaline], III, 193.
- Connell, E. S., and Trowbridge, B. C., essential procedures in diagnosis of abnormalities of hearing, with audiometric findings, III, 107.
- Connell, J. H., cerebral necrosis in sickle-cell anaemia, III, 82.
- Connelly, J. A., pressure stopcock, I, 187.
- Connors, C. A., Eckardt, R. E., and Johnson, L. V., riboflavin for rosacea keratitis, marginal corneal ulcers, and catarrhal corneal infiltrates, III, 799.
- Connolly, E. E., condensation products of acetaldehyde, II, 81.
- Connolly, V. J., colour photographs simplified, III, 780.
- Connor, C. A. R. See Johannsen, M. W.
- Connor, C. L. See Chaikoff, I. L.
- Connor, P. J., and Maier, F. J., value of X-ray examination [of bones] in diagnosis of endocrine diseases, III, 221.
- Connor, W. P., and Smyth, C. P., dielectric dispersion and absorption of water and organic liquids, I, 193.
- Conrad, A. H., Conrad, A. H., jun., and Weiss, R. S., sesame oil tumours, III, 898.
- Conrad, A. H., jun. See Conrad, A. H.
- Conrad, J. E. See McClintock, J. C.
- Consolazio, F. See Barman, J. M.
- Constan, G. R., surgical risks in diabetes; pre- and post-operative treatment, III, 882.
- Constans, G. M., and Radl, R. B., [treatment of] myasthenia gravis, III, 465.
- Constant, F. W., Faires, R. E., and Lenander, H. E., ferromagnetic impurities. II, I, 252.
- Conti, L. F., and Crowley, J. H., bacterial species isolated from chuckawalla (*Sauromalus varius*), III, 212.
- Conti, O. See Fournier, J. C. M.
- Contzen, W. See Schopf, C.
- Converse, H. T. See Madsen, L. L.
- Conway, E. J., mean geochemical data in relation to oceanic evolution, I, 104. Chemical evolution of the ocean, I, 139. Potassium, fermentation, and cell membrane, III, 202.
- and O'Malley, E., linkage of physico-chemical processes in biological systems, III, 352. See also O'Malley, E.
- Conway, J. A., and Loewenstein, A., third entity of primary symmetrical fatty corneal dystrophy, III, 236.
- Conze, C. L. See Lipp, M.
- Cook, A. H., Garner, J., and Perry, C. A., quinoxaline cyanines. I, II, 47.
- Heilbron, I. M., Hey, D. H., Lambert, A., and Spinks, A., therapeutic agents of quinoline series. II. Dipyridylquinolines, II, 391.
- Heilbron, I. M., and Lewis, F. B., alkyl-quinols and related compounds, II, 29.
- Cook, A. H., Heilbron, I. M., and Spinks, A., therapeutic agents of quinoline series. V. Pyridylacridines, II, 391.
- Heilbron, I. M., and Steger, L., therapeutic agents of quinoline series. IV. Lutidyl-quinolines, II, 391.
- and Naylor, R. F., quinoxaline cyanines. III, II, 397.
- and Perry, C. A., quinoxaline cyanines. II, II, 397.
- See also Catch, J. R., and Coates, H.
- Cook, C. S., and McDaniel, P. W., radiations from radioactive ^{60}Co , I, 79.
- Cook, D. H., low-temperature vacuum drying apparatus, I, 187.
- Cook, E. V. See Cullen, S. C.
- Cook, F. M. See Walton, R. P.
- Cook, J. W. See Badger, G. M.
- Cook, K. H. See Cook, W. A.
- Cook, L. C., and Sands, D. E., spinal injuries in convulsion therapy, III, 234.
- Cook, R. D., myocardial infarction, III, 90.
- Cook, W. A., and Cook, K. H., halogenation of m-diphenylbenzene. II. Monoiodo-derivative, II, 85.
- Cooke, B. T. See Hurst, E. W.
- Cooke, J. V. See Blattner, R. J.
- Cooke, L. M., and Hibbert, H., determination of methoxyl and ethoxyl groups, II, 147. See also Bower, J. R., jun.
- Cooke, P. W. See Powell, H. M.
- Cooke, W. R., prophylaxis and treatment of carcinoma of cervix and body of uterus, III, 184. See also Lankford, C. E.
- Cooley, J. S., black root rot of apple trees, III, 150.
- Cooper, A. See Boroff, D. A., and Bnkantz, S. C.
- Cooper, D. E. See Buehler, C. A.
- Cooper, F. S. See Zahl, P. A.
- Cooper, G. R., and Neurath, H., influence of heat-treatment on solutions of crystalline horse serum-albumin, I, 277. See also Russell, C. D.
- Cooper, M. L., and Keller, H. M., sulphathiazole-resistant *Shigella paratyphi*, III, 357. Sulphonamide-resistant *Shigella paratyphi*, Flexner, and *Shigella sonnei*, III, 849. Susceptibility of *Shigella paratyphi* to sodium sulphathiazole and sulphaguanidine *in vitro*, III, 906.
- Cooper, R. S., and Lusk, H. A., amount of fat in blood after meal as estimated by counting chylomicrons, III, 161.
- Cooper, S. R. See Barnes, R. P.
- Cooper, W. C., effect of growth-substances on flowering of pineapple under Florida conditions, III, 614.
- Cooperman, J. M., Waisman, H. A., and Elvehjem, C. A., nutrition of golden hamster, III, 825.
- Cope, A. C. See Heyl, (Mies) D.
- Cope, C. L. See Falconer, M. A.
- Cope, O., Ball, M. R., and Blatt, N., absorption of heavy water from pouches of body and antrum of dog stomach, III, 328.
- Brenizer, A. G., jun., and Cohn, W. E., absorption of radioactive sodium from pouches of body and antrum of dog stomach, III, 328.
- Brenizer, A. G., jun., and Polderman, H., capillary permeability and adrenal cortex studies of cervical lymph in adrenalectomised dog, III, 305.
- Copeland, D. E., cytology of pituitary in developing and adult *Triturus viridescens*, III, 784.
- Copeland, L., relationship between type and production [in dairy cattle], III, 299.
- Copeland, L. E. See Boyd, G. E.
- Copeland, R. A. B., and Day, A. R., preparation and reactions of benzimidazole-2-carboxylic acid and 2-benzimidazolylacetic acid, II, 340.
- Copeman, W. S. C., aetiology of fibrositic nodule, III, 872.
- Copenhafer, W. M. See Detwiler, S. R.
- Copleman, B. See Sussman, M. L.

- Copley, A. L., test-tube rack and comparator, III, 76. Thromboplastic activity of brain and skin extracts, III, 625.
- Krchna, L. C., and Whitney, M. E., humoral rheology. I. Viscosity and anomalous flow properties of human blood systems with heparin and other anticoagulants, III, 160.
- and Lalich, J. J., influence of blood transfusion and injections of *Bursa pastoris* (shepherd's purse) extract on clot-resistance in two haemophiliacs, III, 160.
- and Robb, T. P., effect of heparin on platelet count *in vitro*, III, 372. Effect of heparin *in vivo* on platelet count in mice and dogs, III, 372.
- and Whitney, D. V., standardisation and assay of heparin by toluidine-blue and azure-A reactions, III, 788.
- See also Lalich, J. J.
- Copley, G. N., adsorption in chemical analysis, I, 136. Benzene substitution rule, II, 358.
- Copp, D. H., and Greenberg, D. M., mica window Geiger counter tube for measuring soft radiations, I, 287.
- See also Greenberg, D. M.
- Copping, A. M., riboflavin, vitamin-B₆, and filtrate factors in wheaten flours and offals, III, 409.
- Coppolino, J. F., pertussis prophylaxis, III, 283.
- Corbin, K. B., Probst's tract in cat, III, 637.
- and Harrison, F., attempts to trace origin of afferent nerves to extrinsic eye muscles, III, 309.
- See also Harrison, F.
- Corbin, N. See Brunschwig, A.
- Corcoran, A. C., Browning, J. S., and Page, I. H., renal haemodynamics in orthostatic hypotension, III, 305.
- and Page, I. H., quantitative formulation of maximum urinary specific gravity, III, 567.
- See also Page, I. H.
- Cordes, F. C., and Dickson, O. C., angiogenesis retinae (von Hippel's disease); results following irradiation of three eyes, III, 802.
- Cordier, D. G., artificial respiration, III, 870.
- Cordier, (Mlle.) M., solvation of ions Li⁺, Na⁺, K⁺, Cl⁻, I⁻ in methyl alcohol and in acetophenone, I, 91.
- and Murgier, (Mlle.) M., formation of complex tungsto-tartrates, I, 40.
- Cordier, P., and Moreau, J., condensation of phenylglyoxylic acid with phenylacetonitrile, II, 61.
- Cordill, S. See Goldsmith, G. A.
- Corey, M. See Bodily, H. L., and Eaton, M. D.
- Cork, F. V. See Cullen, S. T.
- Cork, J. M., induced colour in diamonds, I, 84.
- Corlette, C. E., calculation of heat and moisture dissipated from body by respiration, with table to make calculation easy at any temperature, humidity, and pressure of the air, III, 95.
- Corley, R. C. See Vischer, F. E.
- Cormia, F. E., and Bryan, W. W., individual action and summation effects of X-radiation and dermatological preparations on skin of albino rabbit, III, 140.
- Cormick, J., quantitative fragility test in children, III, 627.
- Cornbleet, T., and Popper, H., properties of human skin revealed by fluorescence microscopy, III, 80.
- See also Bergheim, O.
- Cornell, A., Hollander, F., and Winkelstein, A., efficacy of drip method in reduction of gastric acidity, III, 176.
- Cornell, N. W. See Lake, M.
- Corner, B. D., primary carcinoma of pancreas in an infant aged 7 months, III, 899.
- Corner, G. W., fate of corpora lutea and nature of corpora aberrantia in rhesus monkey III, 647.
- Cornet, I., sorption of ammonia on montmorillonitic clay, I, 225.
- Cornforth, J. W., Cornforth, (Mrs.) R. H., and Robinson, (Sir) R., nuclear methylation of phenols by means of methanolic sodium methoxide, II, 28. Preparation of 2-keto-1:2:3:4-tetrahydronaphthalene from β -naphthol and analogous transformations, II, 36. Nuclear methylation of α -naphthol, II, 187.
- and Robinson, (Sir) R., synthesis of substances related to the sterols. XL. (A) Preparation of 2:7-dihydroxyphenanthrene and derivatives. (B) Reduction of 1- γ -ketobutyl-2-naphthol, II, 30.
- Cornforth, (Mrs.) R. H., and Robinson, (Sir) R., preparation of 3-substituted indoles, II, 45. See also Cornforth, J. W.
- Cornog, J., and Bauer, E. E., iodine monochloride. IV. System potassium chloride-iodine monochloride, I, 62.
- Cornwell, A. See Winkelstein, A.
- Corolleur, C. See Bruhat, G.
- Coroniti, S. C., electronic liquid level indicator, I, 71.
- Corper, H. J., analysis of tubercle bacillus and its natural products by immune, allergic, and anaphylactic tests, III, 67. Bacillary and tubercular allergy and their relation to specific tuberculosis immunity, III, 926.
- and Cohn, M. L., vole acid-fast bacillus; virulence, pathogenicity, and specific allergic sensitising and immunising properties, III, 527.
- Correl, J. T., and Wise, E. C., antirachitic properties of AT. 10 for rat and chicken, III, 191.
- Corry, J. E. See Lagermann, R. T.
- Corsaro, J. F. See Goodman, J. I.
- Corson, B. B., and Cerveny, W. J., laboratory bellows pump [delivering 5—2500 c.c. at ~1 atm], I, 103.
- Cortes, G. D. See Bachmann, W. E.
- Corwin, A. See Rodden, C. J.
- Corwin, A. H., and Brunings, K. J., pyrrole series. X. Rearrangements of pyrrole rings in oxidation of dipyrromethanes, II, 19.
- and Ellingson, R. C., pyrrole series. IX. Determination of bridge structure of dipyrromethanes; estimation of active hydrogen, II, 72.
- Cory, G. T. See Hassid, W. Z.
- Coryell, C. D. See Frieden, E. H., and Michaelis, L.
- Coryell, M. A., and Christman, A. A., utilisation of lactose by the fasting white rat, III, 905.
- Cosby, J. N. See Whitmore, F. C.
- Costa, H., secondary production of electrons through the photo-effect in a non-self-dependent discharge in air, I, 219.
- Costello, C. H., and Lynn, E. V., *Viburnum opulus*, III, 446.
- Costello, M. J., Rubinowitz, A. M., and Landy, S. E., sulphonamide therapy in dermatology, III, 583.
- Costoya, M. A. See Marenzi, A. D.
- Cosway, C. A. See Gunn, D. L.
- Cottle, D. L. See Hollyday, W.
- Cotton, A., and Tsai, B., magnetic separation of diamagnetic or paramagnetic substances, I, 167.
- Cottrell, T. L., and Percival, E. G. V., agar-agar. III. Isolation of hepta-acetyl-*dl*-galactose from 3:6-anhydro- β -methyl-*d*-galactoside, II, 56.
- Co Tui. See Shafiroff, B. G. P.
- Coulson, C. A., structure of "diphenylene," II, 58.
- Coulter, J. S. See Hardt, L. L.
- Coulter, K. E. See Beebe, A. H., jun.
- Coulthard, C. E., Short, W. F., Michaelis, R., Sykes, G., Skrimshire, G. E. H., Standfast, A. F. B., Birkinshaw, J. H., and Raistrick, H., notatin: an anti-bacterial glucose-aerodehydrogenase from *Penicillium notatum*, Westling, III, 143.
- Counseller, V. S., and Wrook, D. H., ovarian autografting for endometriosis, III, 171. See also McDonald, J. R.
- Coupage, C. See Pascal, P.
- Court, D., and Taylor, S., slowly-acting pituitary preparations in diabetes insipidus, III, 737.
- Courtois, J. See Fleury, P.
- Courtright, A. B. See Courtright, L. J.
- Courtright, L. J., Hurwitz, S. H., and Courtright, A. B., inhalent sensitisation in guinea-pigs under controlled atmospheric conditions; histamine, histaminase, and acetylcholine as possible preventives, III, 70, 926.
- Courville, C. B., and Marsh, C., cerebral lesions following administration of neoarsphenamine, III, 198.
- Coventry, W. D., case of granulocytopenia [from drugs], III, 515.
- Covode, W. M. See Arey, L. B.
- Cowan, D. M. See Vogel, A. I.
- Cowan, D. W., Diehl, H. S., and Baker, A. B., vitamins and prevention of colds, III, 664.
- Cowan, L. R., surgical treatment of cancer of tongue, III, 185.
- Coward, K. H., relation between increase in weight of rats during dosing period of vitamin-A and -B₁ determinations and standard deviation of increase, III, 42. See also Peters, R. A.
- Cowart, F. W., effect of magnesium deficiency in grapefruit trees on composition of fruit, III, 538.
- See also Pickett, T. A.
- Cowdry, L. V., and Ruangsiri, C., influence of prolin, starch, and heptaldehyde on experimental leprosy in rats, III, 907.
- Cowen, D., Wolf, A., and Paige, B. H., toxoplasmic encephalomyelitis; clinical diagnosis of infantile or congenital toxoplasmosis: survival beyond infancy, III, 797.
- Cowgill, E. J., and Windle, W. F., development of cranial sympathetic ganglia in cat, III, 542.
- Cowie, A. T. See Blair, G. W. S.
- Cowles, E. J. See Prater, A. N.
- Cowles, P. B., role of ionisation in bacteriostatic action of sulphonamides, III, 262.
- Cowling, H., and Benne, E. J., [determination of] zinc and iron in plants, III, 150.
- Cox, A. H. See Moore, L. R.
- Cox, A. J., stomach in pernicious anaemia, III, 623.
- See also Thomas, J. O.
- Cox, A. J., jun. See Ambrose, A. M.
- Cox, E. H., preparation of sulphanilylcarbamide, Cox, G. See McKay, H.
- Cox, M. F. See Lankford, C. E.
- Cox, R. T. See Goertzel, G., and Nachmansohn, D.
- Cox, S. M., viscosity measurement in region of 10⁶ poises, I, 240. Shape of subjective space, III, 19.
- Cox, W. M., jun., Mueller, A. J., and Fickas, D., nitrogen balance in human tryptophan deficiency, III, 333.
- See also Elman, R.
- Crabtree, D. G. See Ward, J. C.
- Crabtree, E. G., Abramson, D., and Robins, S. H., effect of pregnancy on excretion of intravenous diodrast [by kidney] in rabbits, III, 330.
- Cracas, L. J. See Light, R. F.
- Crafts, R. C., sesame oil as vehicle for fat-soluble hormones, III, 21.
- See also Levin, L.
- Cragg, J. B. See Beadle, L. C.
- Cragg, J. M. See James, W. O.
- Craggs, J. D., electrostatic focussing of high-speed ion and electron beams, I, 166.
- Crago, M., Mantoux test versus patch test, III, 608.
- Craig, D., geometric isomerides of piperylene, II,
- Craig, F. N., and Beecher, H. K., effect of low oxygen tension on tissue metabolism (retina), III, 553. Effect of carbon dioxide tension on tissue metabolism (retina), III, 553. Effect of oxygen tension on metabolism of cerebral cortex, medulla, and spinal cord, III, 796.
- See also Beecher, H. K.

- Craig, L. C., and Jacobs, W. A., veratrine alkaloids. XX. Further correlations in the veratrine group; relationship between veratrine bases and solanidine, II, 400.
See also Gould, R. G., jun., Jacobs, W. A., and Rothen, A.
- Craige, A. H., jun., amphetamine in veterinary practice, III, 912.
- Craigie, B. See Blake, F. G.
- Craik, K. J. W., specifications for dark-adaptation tests, III, 554. Physiology of colour vision, III, 732.
- Cralley, L. J., removal of bacteria from tracheal tree and lungs, III, 208.
- Cralley, L. V., effect of irritant gases on rate of ciliary activity, III, 767.
- Cram, D. J. See Cromwell, N. H.
- Cram, E. B., [treatment of] oxyuriasis [with gentian-violet], III, 761.
- Cramer, W., origin of cancer in man, III, 251.
- and Stowell, R. E., skin carcinogenesis by a single application of 20-methylcholanthrene, III, 747.
- Crammer, J. L., and Neuberger, A., state of tyrosine in ovalbumin and in insulin as determined by spectrophotometric titration, III, 680.
- Crampton, E. W. See Swales, W. E.
- Crampton, H. E. See Forbes, G. S.
- Crandall, L. A., jun. See Mulder, A. G., and Murer, H. K.
- Crandall, W. A. See Patterson, J. M.
- Crane, S. C. See Fox, D. L.
- Cravath, A. M. See Brattain, R. R.
- Craven, E. C., partial pressures, I, 57. Osmotic pressure, I, 121.
- Cravens, W. W., Sebesta, E. E., Halpin, J. G., and Hart, E. B., effect of *Lactobacillus casei*: eluate fraction on reproduction in fowl, III, 325.
- Craver, B. N., and Williamson, H. L., simple automatic distilling unit, I, 139.
- Craver, L. F., diagnosis of malignant lung tumours by aspiration biopsy and sputum examination, III, 492.
See also Kennedy, J. M.
- Crawford, (Miss) H. M., Saeger, (Miss) M. E., and Warneke, (Miss) F. E., reaction of magnesium n-butyl bromide with aromatic ketones, II, 130.
- Crawford, J. H., aneurysm of heart, III, 549.
- Crawford, M. D., clinical and biochemical findings in delayed chloroform poisoning, III, 138.
- Crawford, R. C. See Merkel, W. C.
- Crecelius, H. G., and Rettger, L. F., intestinal flora of guinea-pig, III, 919.
- Credner, K. See Holtz, P.
- Creecy, A., and Swittes, H. L., sulphathiazole in venereal disease, III, 582.
- Cressman, R. D., and Blalock, A., experimental osteomyritis, III, 365.
- Cretcher, L. H. See Tipson, R. S.
- Crider, J. O. See Ramsay, A. J.
- Criegee, R., preparative organic chemistry. III. Oxidations with lead tetra-acetate and periodic acid, II, 317.
- and Büchner, E., velocity of fission of glycols with lead tetra-acetate in relation to the solvent, I, 231.
- Buchner, E., and Walther, W., velocity of fission of glycols with lead tetra-acetate in relation to the constitution of glycol, I, 231.
- Criep, L. H., allergy in identical twins, III, 289.
- Crigler, C. W. See Shimkin, M. B.
- Crile, G., exophthalmic goitre, III, 320. Liver failure following operation in hyperthyroidism, III, 734.
- Glasser, O., and Quiring, D. P., shock, exhaustion, and restoration in war, III, 378.
- Crippa, G. B., and Caracci, R., pyrazole nucleus; transposition of bis-4:5'- into bis-4:4'-pyrazolene, II, 47.
- and Maffei, S., sulphonamide derivatives of pyrazole. I. 1-p-Sulphonamido-phenyl-3-methyl-*p*-pyrazolone, II, 141.
- Cripps, R. W., and Hey, D. H., nuclear alkylation of aromatic bases. V. Action of methyl alcohol on *m*-toluidine hydrochloride, II, 87.
- Criscuolo, E. See Tey, A.
- Crisp, W. H., cross-cylinder test for astigmatic axis, without use of test type, III, 800.
- Cristol, S. J. See Young, W. G.
- Critchfield, C. L., theoretical properties of dense hydrogen, I, 120. Antisymmetrical interaction in β -decay theory, I, 246.
- Critchfield, L. R., Simons, L. T., Emmens, T. H., and Newell, F. W., recovery from pneumococcal [type III] meningitis after sulphapyridine, III, 582.
- Critchley, M., aphasic disorders of signalling [constitutional and acquired occurring in Naval signalmen], III, 468.
- Croatto, U., and Bryk, G., alkali pyroiodates: their existence and formation, I, 40.
See also Bezzini, S.
- Croc, R. L., rat ear as site for adrenal cortical grafts and subsequent ear-adrenalectomy, III, 169.
- Crockford, H. D. See Nicholes, P. M.
- Croft, P. G. See Richter, D.
- Crog, R. S., and Hunt, H., heats of combustion. II. Heats of combustion of methyl ethyl ketone and ethylene oxide, I, 129.
- Cromartie, W. J., arteritis [resembling human periarteritis nodosa] in rats with experimental renal hypertension, III, 870.
- Crombie, G. P. See Keevil, N. B.
- Cromwell, B. T., and Hunter, J. G., chlorosis in tomatoes, III, 72.
- Cromwell, N. H., Babson, R. D., and Harris, C. E., $\alpha\beta$ -unsaturated amino-ketones. VIII. Reaction of primary amines with 1:3-diketones and bromine derivatives of phenyl styryl ketone; ethyleneimines, II, 232, 243.
- and Cram, D. J., $\alpha\beta$ -unsaturated amino-ketones. VI. Mechanisms of the reactions of sec.-amines with $\alpha\beta$ -unsaturated α -bromo-ketones, II, 243.
- and Johnson, R. S., $\alpha\beta$ -unsaturated amino-ketones. IX. Colour and constitution, II, 232.
- Schroeder, O. C., and Wiles, Q. T., amino-ketones. I. Synthesis of amino-alcohols and $\alpha\gamma$ -diamino-compounds from β -amino-ketones, II, 108.
- and Witt, I. H., $\alpha\beta$ -unsaturated amino-ketones. VII. Reaction of piperidine and benzylmethylamine with bromine derivatives of benzylidene-acetone and -acetophenone, II, 243.
- Crook, G. W. See Tomkins, C. A.
- Crooks, A. C., and Scott, E., caloric control in diabetes, III, 494.
- Crooks, H. M., jun. See Marker, R. E.
- Crosbie, A., and Scarborough, H., stored blood. X. Complement, isoagglutinins, and agglutinogens, III, 226.
- Cross, A. G., angioma of retina, III, 802.
- Cross, C. D. See Kohn, F.
- Cross, E. J. See Chen, P.
- Cross, F. B. See Webster, J. E.
- Cross, P. C. See King, G. W.
- Cross, W. G., gum tumours in pregnancy and gingivitis gravidarum, III, 819.
- Crossley, D. W., and Foster, E. M., beryllium-copper and its applications, I, 72.
- Crossley, F. S. See Miller, E.
- Crossley, M. L. See Robinson, E. J., and Vassel, B.
- Crossman, R. See Pratt, H. N.
- Crouch, E. A. C. See Hodgson, H. H.
- Crouch, W. W., and Lochte, H. L., reaction of glutarimides with phosphorus pentachloride; pyridine synthesis, II, 206.
See also Lochte, H. L., Ney, W. O., and Quebedeaux, W. A.
- Crowe, E. W., and Bradford, E. A. M., winter sources of vitamin-C, III, 5/8.
- Crowe, S. J., Guild, S. R., Langer, E., Loch, W. E., and Robbins, M. H., impaired hearing in school children, III, 474.
- Crowell, E. A., and Dulin, J. W., congenital anomalies of anus and rectum, III, 366.
- Crowell, W. R., Mertes, R. W., and Burke, S. S., electromotive force of mercurous bromide electrode, I, 130.
- Crowfoot, D. M., and Low, B. W., crystallography of helvolic acid and methyl ester of helvolic acid, III, 917.
See also Berenblum, I.
- Crowley, J. H. See Conti, L. F.
- Crowther, A. F., Mann, F. G., and Purdie, D., indole formation from phenacylarylamines. I, II, 140.
- Croxatto, F. See Huidobro, F.
- Croxatto, H., Allende, J., and Croxatto, R., destruction of pitocin by aminopeptidase in brewer's yeast and by hypertensinase extracts of kidney, III, 809.
- and Alonso, O., action of pentamethylene-tetrazole on superior cervical ganglion, III, 640.
- Cepeda, C., and Croxatto, R., cholesterolemia in eviscerated preparation, III, 629.
- and Croxatto, R., influence of ovary on blood-cholesterol *in vitro*, III, 28. Probable chemical changes of blood-cholesterol incubated *in vitro* with ovarian tissue, III, 88. Separation of hypertensinogen and hypertensinase in ox serum, III, 631.
- Croxatto, R., and Huidobro, F., photometric method for determination of choline-esterase activity of serum, III, 628.
- Croxatto, R., Huidobro, F., and Salvestrini, H., variations of serum-choline-esterase during muscular contraction, III, 629.
- Croxatto, R., Huidobro, F., and Sanhueza, F., changes in serum-choline-esterase following excitation of vagus in neck, III, 629.
- and Huidobro, F., vagal hypotension before and after section of abdominal vagus, III, 10. Properties of "vagus hypertensin," III, 10. Acetylcholine contraction of rectum of frogs and its reaction to different drugs, III, 51.
- See also Alonso, O., Badilla, M., Croxatto, R., Salvestrini, H., and Sepulveda, J.
- Croxatto, R., and Croxatto, H., destruction of hypertensin and pepsitensin by an aminopeptidase obtained from yeast, III, 463.
- Croxatto, H., and Marty, L., hypertensin, hydroxytyramine, and action of renal hypertensor extracts, III, 790.
- and Huidobro, F., serum-choline-esterase in pathological conditions, III, 628. Changes in serum-choline-esterase during sympathetic stimulation, III, 629.
- Huidobro, F., and Luco Valenzuela, J., changes in choline-esterase activity of superior cervical ganglion after section of preganglionic fibres, III, 640.
- Huidobro, F., Luco Valenzuela, J., and Salvestrini, H., choline-esterase activity during nervous stimulation, III, 640.
- See also Alonso, O., Croxatto, H., and Huidobro, F.
- Crozier, W. J., and Wolf, E., wave-length sensitivity function for zebra finch, III, 19. Theory and measurement of visual mechanisms. VIII. Form of flicker contour, III, 19.
- Cruickshank, A. H., reaction of blood lymphocytes to trauma and healing, III, 301.
- Cruickshank, D. H. See Wood, J. G.
- Cruickshank, E. M. See Bacharach, A. L.
- Cruickshank, J. C., Hobbs, B. C., McFarlan, A. M., and Maier, I., phenol and alcohol in T.A.B.C. vaccine, III, 440.
See also Bray, P. T.
- Cruickshank, R. See Ende, M. van den, and McCartney, J. E.
- Cruse, K., e.m.f. measurements in liquid sulphur dioxide, I, 229, 309.
- Crusellas, J., vapour pressure of hydrates of sulphathiazole sodium, II, 48.
- Crut, G., denaturation of fibrinogen by anti-coagulants, III, 372.

- Csaky, T. See Gordon, H.
 Csokán, P., constitution of o-carboxylic acids in solution, I, 80. Determination of nickel salts by Zeiss dipping refractometer, I, 264. Spectroscopic detection of opium alkaloids, II, 210.
 Cuajunco, F., development of human motor end plate, III, 634.
 Culbertson, C. G., rotator for blood typing and slide test for syphilis, III, 285.
 Culbertson, C. S. See Markey, R. L.
 Culbertson, J. T., active immunity of mice against *Trichinella spiralis*, III, 442. Passive transfer of immunity against *Trichinella spiralis* in rat, III, 442. Natural transmission of immunity against *Trichinella spiralis* from mother rats to their offspring, III, 612.
 and Rose, H. M., skin tests in schistosomiasis with antigen from *Pneumonectes medioplexus*, III, 204.
 See also Zurett, S.
 Culemeyer, K. See Krabbe, W.
 Cullen, A. B. See Walton, R. P.
 Cullen, S. C., and Cook, E. V., solubility of nitrous oxide in human blood, III, 512.
 See also Gross, E. G., and Rovestine, E. A.
 Cullen, S. T., and Cork, F. V., normal human arterial O₂ tension, III, 232.
 Cullen, W., William Murdoch, I, 187.
 Cullimore, O. S. See Ewing, M. E.
 Cullinan, F. P. See Scott, D. H., and Waugh, J. G.
 Cumberland, M. C. See Young, L. E.
 Cumming, W. M., and Alexander, W. A., aminosulphonic acid in determination of nitrites, I, 314.
 Cummings, J. B., morphogenesis of gonopodium in *Mollieinia latipinna*, III, 782.
 Cummings, R. H. See Nesbit, R. M.
 Cummins, H. See Ohler, E. A.
 Cummins, J. A., metrazol complications as affected by use of curare, III, 590.
 Cummins, S. D. See Hardy, A. V.
 Cuneo, J. F., and Switzer, R. L., determination of butadiene in presence of other unsaturated and saturated gaseous hydrocarbons, II, 347.
 Cunliffe, P. W., photo-electric photometer, I, 318.
 Cunliffe, J. P., sulphapyridine anuria successfully treated by ureteric catheterisation, III, 759.
 Cunningham, A. See Stableforth, A. W.
 Cunningham, B., cretinoid progeny from hyperthyroid rats, III, 108.
 and Kirk, P. L., oxygen consumption of single cells of *Paramecium* as measured by capillary respirometer, III, 846.
 See also Sandkuhle, J.
 Cunningham, J. See Halpern, S. R.
 Cunningham, J. F., placenta accreta, III, 119.
 Cunningham, R. W., Fellows, E. J., and Livingston, A. E., triazole derivatives, III, 197.
 Curl, H., high-fat diet preceding cholecystography, III, 248.
 Curnen, E. C. See Thomas, L.
 Curran, B. C. * See Anzilotti, W. F., and Lane, T. J.
 Curran, H. R., Brunstetter, B. C., and Myers, A. T., spectrochemical analysis of vegetative cells and spores of bacteria, III, 917.
 and Evans, F. R., killing of bacterial spores in fluids by agitation with small inert particles, III, 61.
 Currence, T. M., comparison of tomato varieties for vitamin-C content, III, 700.
 Currens, J., and Barnes, A. R., heart in pulmonary embolism, III, 868.
 and Popp, W. C., xanthomatosis: Hand-Schueller-Christian type, III, 905.
 Currie, J. P. See Macfarlane, J. W.
 Currier, W. D., office noises and their effect on audiometry, III, 804.
 Curry, J. J., acute agranulocytosis following sulphadiazine, III, 418.
 Curry, R. See Smith, S. G.
 Curtin, T. P. See Alberici, V. J., and Reilly, D.
 Curtis, A. H., Anson, B. J., and Beaton, L. E., anatomy of subperitoneal tissues and ligamentous structures in relation to surgery of female pelvic viscera, III, 153.
 Curtis, B. R. See Kinsey, V. E.
 Curtis, E. G. See Irving, Harry.
 Curtis, G. H., prevention of radiodermatitis as sequel to Roentgen therapy for common dermatoses, III, 54.
 Curtis, G. M. See Klassen, K. P., and Poppel, I. D.
 Curtis, J. See Day, R.
 Curtis, L. E. See Lisser, H.
 Curtiss, L. F., prevention and control of hazards in radium dial painting industry, III, 270.
 Cushing, I. B. See Baker, E.
 Cusic, J. W. See Burtner, R. R.
 Cuskick, P. L. See Williams, R. D.
 Cusmano, G., resistance of cineole derivatives to concentrated acids, II, 137.
 Cust, A. D., quinine in treatment of subtropical malaria, III, 592.
 Custer, R. P. See Hoffman, O. D.
 Cuthbertson, D. P. See Bell, G. H.
 Cuthbertson, E. M. See Greenberg, D. M.
 Cutkomp, L. K., toxicity of rotenone and derris extract administered orally to birds, III, 592.
 Cutler, E. C., and Harrison, J. H., phlegmonous gastritis, III, 177.
 and Hoerr, S. O., avertin anaesthesia for thyrotoxicosis, III, 344.
 Cutler, M. See Leikind, S. S.
 Cutting, W. C., treatment of obesity, III, 670.
 and Robson, G. B., chemotherapy of typhoid carriers, III, 417.
 and Sultan, E. H., sulphanilamides: passage into spinal fluid and rectal absorption, III, 133.
 See also Kuzell, W. C., and Robson, G. B.
 Cutts, M., and Troppoli, A. W., acquired drug resistance in haemolytic streptococcus, III, 213.
 Cutuly, E., effects of lactogenic and gonadotropic hormones on hypophysectomised pregnant rats, III, 25. Maintenance of pregnancy in hypophysectomised rat, III, 561.
 Cuyler, W. K., and Baptist, M., spermatozoal stain for clinical studies, III, 122.
 Baptista, M., Hamblen, E. C., and Salmon, A. A., 17-ketosteroid excretion and seminal function, III, 122.
 Davis, C. D., and Hamblen, E. C., diethyl-stilboestrol for haemostasis in functional uterine haemorrhage, III, 117.
 Hamblen, E. C., Hirst, D. V., and Powers, J. M., effects of deoxycorticosterone acetate on 17-ketosteroid and pregnanediol excretions, III, 110.
 See also Davis, C. D., Hamblen, E. C., Hirst, D. V., and Pullen, R. L.
 Cytronberg, S., excretion of urea in bile in azotemia, III, 179.
 Czakzes, I. See Kligler, I. J.
 Czekalowski, J. W., stored blood. XI. Phagocytosis in stored citrated blood and opsonic power of stored liquid plasma, III, 226.
 Czmiel, R. M. See Halden, W.
 Czulius, W. See Schintlmeister, J.
- D.
- Dach, H. von, respiratory metabolism of a colourless flagellate, III, 686.
 Dacie, J. V., and Firth, D., blood transfusion in nocturnal haemoglobinuria, III, 545.
 and Mollison, P. L., survival of transfused erythrocytes in familial haemolytic anaemia, III, 863.
 and Richardson, N., influence of pH on *in-vitro* haemolysis in nocturnal haemoglobinuria, III, 786.
- Dack, G. M., and Hoskins, D., absorption of botulinum toxin from colon of *Macaca mulatta*, III, 434. Effect of oral administration of sulphanylguanidine on experimental bacillary dysentery in isolated loops of colon of *Macaca mulatta* and its effect when introduced into the loops, III, 508.
 See also Segalove, M.
 Dack, S. See Master, A. M., and Sussman, M. L.
 Daft, F. S., Ashburn, L. L., and Sebrell, W. H., biotin deficiency and other changes in rats given sulphanylguanidine or succinylsulphathiazole in purified diets, III, 510.
 See also Ashburn, L. L., Lowry, J. V., and Spicer, S. S.
 Dagradis, A. See Pearce, J.
 Dahl, O., electrodialysis-electrophoresis apparatus for preparative colloid-chemical purposes, I, 307.
 See also Tiselius, A.
 Dahl, O. A. See Rosendahl, C. O.
 Dailey, B. P. [with Felsing, W. A.], heat capacities at higher temperatures of ethane and propane, I, 148. Heat capacities of and hindered rotation in *n*- and *t*-butane, I, 148.
 Dak, S. See Olson, T. M.
 Dakin, H. D., lysine and ornithine, II, 55.
 Dakin, T. W., electrical properties of polyvinyl acetate, I, 297.
 Dalby, G. See Hoffmann, C.
 Dale, H. H., international biological standards in wartime; posterior pituitary standard preparations, III, 391.
 Dale, N. C., scheelite deposits in Greenhorn mountains of Southern Sierras, I, 211.
 Dalla Torre, L. See Laszt, L.
 Dallis, N. P. See Jahsman, W. E.
 Dalmon, R. See Desmaroux, J.
 Dolphin, C. See Haag, E.
 Dalton, A. J., and Edwards, J. E., cytology of hepatic tumours and proliferating bile duct epithelium induced with *p*-dimethylaminobenzene in rat, III, 401.
 See also Edwards, J. E.
 Dalton, D. See Sumerford, W. T.
 Dalton, J. W., and Nuzum, F. R., renal function and hypertension, III, 306.
 Daly, R. A., meteorites and an earth-model, I, 322.
 Dam, H., and Glavind, J., capillary permeability in vitamin-E-deficient chick, III, 461.
 and Kelman, E. M., effect of vitamin-E on blood plasma-lipins of chick, III, 578.
 Damaschke, A. See O'Daniel, H.
 Dameshek, W., familial Mediterranean target-cell syndromes, III, 623.
 Greenwalt, T. J., and Tat, R. J., erythroblastosis foetalis (acute haemolytic anaemia of newborn), III, 786.
 and Miller, E. B., pathogenetic mechanisms in haemolytic anaemias, III, 862.
 See also Miller, E. B., and Tat, R. J.
 Damianovich, H., helium and rare gases, I, 281.
 Damkohler, G., influence of turbulence on flame velocity in gaseous mixtures, I, 230.
 and Sander, A., apparatus for the kinetic investigation of very rapid homogeneous gas reactions, I. and II., I., 167.
 Damodaran, M., and Varma, K., colorimetric determination of hydroxylamine, III, 540.
 D'Amour, F. E., comparison of methods used in determining time of ovulation, III, 479.
 Dancey, T. E. See Stern, K.
 Dancoff, S. M. See Serber, R.
 Dandy, W. E., Ménière's disease; surgical treatment, III, 734.
 Dane, E. H. Wieland's work on sterols, II, 12.
 and Hoss, O., syntheses in hydroaromatic series. VII. Preparation of partly hydrogenated derivatives of 7-methoxyphenanthrene-2-carboxylic acid and of 7-methoxy-2-acetophenanthrene, II, 91.

- D'Angelo, S. A., Gordon, A. S., and Charipper, H. A., thyrotropic hormone assay in tadpole, III, 25.
See also Eversole, W. J.
- Daniel, E. P., and Hewston, E. M., vanadium—its possible biological role, III, 41.
Hewston, E. M., and Kies, M. W., spectrographic analysis of rat tissues for ingested vanadium, III, 220.
- Kline, O. L., and Tolle, C. D., convulsive syndrome in young rats associated with pyridoxine deficiency, III, 190.
- Daniel-Bek, V. S., theory of metal corrosion. I. Distribution of lines of current and potential in corrosion micro-cells, I, 131.
- Daniels, F., prediction of reaction rates, I, 258.
- Daniels, G. E., ulcerative colitis associated with hysterical depression, III, 125.
See also Tauber, E. S.
- Danis, P. G., and Anderson, W. A. D., choline chloride in treatment of icterus gravis neonatorum, III, 566.
See also Gallagher, F. W.
- Dann, M., Marples, E., and Levine, S. Z., phenylpyruvic oligophrenia: chemical studies of urine, III, 337.
- Dann, W. J., and Handler, P., nicotinic acid content of meat, III, 410.
See also Handler, P.
- Dannenberg, A. M. See Perlman, H. H.
- Dannenberg, H. See Butenandt, A.
- Danon, L., malformations of large intestine, III, 78.
- Dansi, A., and Ferri, C., action of aluminium chloride on tetrahydronaphthalene, II, 86.
- Dapples, E. C., physical constitution of coal as related to coal description and classification, I, 76.
- Darby, W. J., and Lewis, H. B., urocanic acid and intermediary metabolism of histidine in rabbits, III, 192.
- Darling, C. A., and Siple, P. A., bacteria of Antarctica, III, 278.
- Darling, I. A., inebrity: classification, III, 345.
- Darling, J. See Morton, A. A.
- Darling, B. C., and Roughton, F. J. W., effect of methaemoglobin on equilibrium between oxygen and haemoglobin, III, 633.
See also Johnson, R. E., and Roughton, F. J. W.
- Darlington, C. D., [vitamin-C and chromosome number in Rosa], II, 74.
- Darrow, D. C., and Miller, H. C., production of cardiac lesions by repeated injections of deoxycorticosterone acetate, III, 110.
- Darrow, G. M., rest period required for blueberries, III, 612.
See also Morrow, E. B.
- Darwent, B. de B., and Winkler, C. A., system *n*-hexane-methylcyclopentane-aniline, I, 308.
- Darwin, (Sir) C. G., extreme properties of matter, I, 85.
- Das, A. K., and Rao, Y. P., motion of gases in sun's atmosphere. IV. Occurrence of highly stripped atoms in corona, I, 142.
- Das-Gupta, D. B. See Guha, P. C.
- Das-Gupta, S. J., chemotherapy of malaria, II, 339.
See also Biswas, H. G.
- Dascomb, H. E. See Syverton, J. T.
- Datta, N. P., properties of dialysed hydrous alumina hydrogels. I. pH changes due to ageing, and titration with neutral salts. II. Titration with bases and acids, I, 89, 276.
- Dauber, D. V., and Katz, L. N., experimental cholesterol atheromatosis in chicks, III, 379.
- Daubney, R., and Hudson, J. R., action of two aromatic diamidines on *Trypanosoma congoense* infections in cattle; delayed poisoning by 4:4'-diaminodiphenoxypentane, III, 50. Chemotherapeutic action of 4:4'-diaminodistilbene in *Babesia* infections of domestic animals, III, 50.
- Daudel, R., molecular transformations accompanying the Szilard effect, I, 47.
- Daudt, W. H. See Fieser, L. F.
- Dauncey, L. A. See Chirnside, R. C.
- Daunt, J. G., and Mendelsohn, K., superconductivity of liquid helium II, I, 56.
- Dauphinee, J. A. See Hepburn, J.
- Dave, K. P., Trivedi, J. J., and Nargund, K. S., 3:4-dimethoxyphenylsuccinic acid, II, 231.
- Davenport, D., and Smith, J. W., action of *Triturus* toxin on heart of frog, III, 304.
- Davenport, H. A. See Bothie, R. T.
- Davenport, H. W., secretion of water as component of gastric acid secretion, III, 245. Secretion of sulphonamides in gastric juice, III, 262.
- Davenport, K. M., reactions after cisternal and spinal puncture [in out-patients], III, 101.
- Davey, H. W. See Elman, R.
- David, A. See Green, J. A.
- David, P. See Labarre, J.
- David, V. C., indications and results of pancreatectomy for hypoglycaemia, III, 483.
- David, W. T., condition of freshly burnt gases, I, 37.
and Mann, J., influence of water vapour on combustion of hydrocarbon mixtures, I, 156.
- Davidoff, E., and Goodstone, G. L., use of testosterone propionate in treatment of involutional psychosis in male, III, 727.
- Davidoff, L. M. See Rheinberger, M. B.
- Davids, A. M. See Rubin, I. C.
- Davidsohn, I., irregular isoagglutinins, III, 622. and Toharsky, B., Rh blood factor; antigenic analysis, III, 82. Bacteriogenic haemagglutination, III, 146.
- Davidson, C. F. See Forbes, R. D.
- Davidson, C. S., and MacDonald, H., action of 3:3'-methylenebis-(4-hydroxycoumarin) (dicoumarin), III, 547.
See also Kaplan, M. H., and Tagnon, H. J.
- Davidson, F. A., Vaughan, E., Hutchinson, S. J., and Pritchard, A. L., upstream immigration of pink salmon (*Oncorhynchus gorbuscha*), III, 747.
- Davidson, I. See Poncher, H. G.
- Davidson, J. B., speed of development of insect eggs at constant temperature, III, 240.
See also Morton, A. A.
- Davidson, J. N., and Waymouth, C., nucleoprotein content of fibroblasts growing *in vitro*, III, 709.
- Davidson, L. S. P., Davis, L. J., and Innes, J., effect of liver therapy on erythropoiesis observed by serial sternal punctures in pernicious anaemia, III, 4. Megaloblastic anaemia of pregnancy and puerperium, III, 369. Refractory anaemia. I. Technique, interpretation, and classification. II. Anaemias with hypocellular, normoblastic marrows. III. Refractory anaemias with cellular marrow, III, 454, 623, 711.
- Donaldson, G. M., Dyar, M. J., Lindsay, S. T., and McSorley, J. G., nutritional iron deficiency anaemia in wartime. I., III, 369. Donaldson, G. M., Lindsay, S. T., and McSorley, J. G., nutritional iron deficiency anaemia in wartime. II., III, 862.
See also Davis, L. J.
- Davidson, O. W., potassium translocation in peach roots, III, 534.
See also Blake, M. A.
- Davidson, R. R. See King, R. O.
- Davidson, W. C., enzymic titration of duodenal contents, III, 35.
- Davidson, W. S., and Latham, O., pathological states in dementia praecox revealed in fatal case of picrotoxin medication, III, 639.
- Davies, D. F. See Free, A. H.
- Davies, D. V., staining reactions of normal synovial membrane with reference to origin of synovial mucin, III, 157.
- Davies, E. C. H. See Spangler, J. A.
- Davies, J. J., canine nutrition, III, 251.
- Davies, J. N. P., sulphonamides in Pfeiffer's bacillus meningitis, III, 906.
- Davies, L. D., relation between diameter and fresh weight of developing peach fruits, III, 532.
- Davies, P. W., and Brink, F., jun., micro-electrodes for measuring local oxygen tension in animal tissues, III, 704.
- Davies, R., acetone-butanol fermentation. IV. Acetoacetic acid decarboxylase of *Cl. acetoxylyticum* (By.), III, 689.
- Davies, R. O. See Adams, S. H.
- Davies, R. R., and Hodgson, H. H., catalytic reduction by formic acid under pressure. I. Preparation of aldehydes from carboxylic acids with titanium dioxide as catalyst. II. Comparison of copper and nickel as catalysts, II, 152, 250. Preparation of aldehydes by disruptive oxidation of the ethylene linking, II, 232. Catalytic dehydrogenation of alcohols to aldehydes in presence of air, II, 252. Conversion of an alcohol into the corresponding aldehyde by a less volatile aldehyde with the aluminium alkoxide as catalyst; influence of an ethylene linking in the reactant aldehyde, II, 301. Direct reduction of carboxylic acids to aldehydes, and preparation of undecaldehyde by a modified Blaise reaction, II, 319. Formation of leuco-triphenylmethane dyes, and an analogy in the Perkin reaction, II, 365.
- Davies, W., ignition of methane by hot wires, I, 259.
- Davies, W. C., and Key, C., amperometric determination of sulphates, I, 137.
- Davis, A. See Deuel, H. J., jun.
- Davis, A. L., and Gardner, W. H., nature and constitution of shellac. XVI. Preparation of $\theta\omega$ -trihydroxypentadecylamine from aleuritic acid by the Naegeli-Curtius series of reactions, II, 24.
- Davis, B. D., Hollaender, A., and Greenstein, J. P., electrophoretic patterns, colloid osmotic pressure, and viscosity of serum denatured by ultra-violet radiation, III, 271.
and Wood, W. B., jun., antibacterial action of sulphonamides. III. Correlation of activity with binding to plasma-proteins, III, 338.
- Davis, B. F., nonparasitic solitary cyst of liver [treatment], III, 137.
- Davis, C. D., Hamblen, E. C., Cuyler, W. K., and Baptist, M., progesterone therapy and progestin metabolism in abortion, III, 119.
- Pullen, R. L., Madden, J. H. M., and Hamblen, E. C., therapy of seminal inadequacy. I. Use of pituitary, chorionic, and equine gonadotropins, III, 741.
See also Cuyler, W. K.
- Davis, C. O. See Johnston, H. L.
- Davis, D. E., and Domm, L. V., sexual behaviour of hormonally treated domestic fowl, III, 651.
See also Domm, L. V.
- Davis, D. H. S. See Brambell, F. W.
- Davis, D. J., stable trypanosome complement-fixing antigen, III, 771.
- Davis, (Miss) D. O. See Huggins, M. L.
- Davis, D. S., vapour pressure nomographs for aqueous sodium hydroxide solutions, I, 11. Surface tension-viscosity nomograph for organic liquids, I, 35. Nomograph for calculating reduced temperatures, I, 35. B.p., nomograph for *n*-alkyl primary amines I, 86. Vapour pressure nomogram for isomeric octanols, I, 120. Calcium chloride nomographs, I, 122. Solidification point nomograph for fatty acids, I, 122.
- Davis, E. H. See Kaplan, H. M.
- Davis, E. W. See Bailey, P.
- Davis, F. See Blair, D. M.
- Davis, G. K. See Hale, E. B.
- Davis, H., and Wallace, W. M., changes produced in electroencephalogram by standardised hyperventilation, III, 797.
See also Galambos, R. G.
- Davis, H. A., and Meneely, G. R., probability of obtaining potentially dangerous pools of human serum or plasma, III, 457.
- Davis, H. C. See Turnbull, A. H.
- Davis, H. H., and McLaughlin, C. W., results of treatment in acute appendicitis, III, 178.
- Davis, H. M. See Serfoss, S.
- Davis, H. P. See Gaines, W. L., and Trimberger, G. W.

- Davis, J. E., effect of mercury indigo-disulphonate on breast cancer of mice, III, 659. Erythrocyte longevity in dogs and rabbits, III, 785. Production of experimental polycythaemia by adrenaline or posterior pituitary extract, III, 862. and Harris, A. H., production of experimental polycythaemia [by amphetamine], III, 226.
- Davis, J. K., and Bartell, F. E., interfacial-tension studies of sodium laurate solutions, I, 180.
- Davis, L., and Perret, G., cerebral thrombo-angiitis obliterans, III, 868.
- Davis, L. J., Davidson, L. S. P., Riding, D., and Shaw, G. E., treatment of pernicious anaemia with experimental proteolysed liver preparation, III, 623. See also Davidson, L. S. P.
- Davis, M. C., investigation of renal function with nomographic method for determination of urea clearance, III, 894.
- Davis, M. S. See Davis, P. L.
- Davis, N. S., 3rd, factors which influence senescence, III, 817.
- Davis, P. A., electroencephalographic studies on three cases of frontal lobotomy, III, 98.
- Davis, P. L., and Davis, M. S., non-icteric leptospirosis icterohaemorrhagia (Weil's disease) contracted while bathing, III, 64.
- Davis, R., Bridge, H. S., and Svibely, W. J., molar polarisations in extremely dilute solutions, I, 193.
- Davis, R. E. See Bastron, H.
- Davis, S. B. See Linstead, R. P.
- Davis, T. W., solubility of strontium chromate and detection of strontium, I, 42. See also Ricci, J. E., and Saffer, A.
- Davis, W., jun., and Noyes, W. A., jun., photochemical studies. XXXV. Photochemical decomposition of methyl *n*-butyl ketone, I, 66.
- Davis, W. A., Frank, H. A., Hurwitz, A., and Seligman, A. M., intravenous use of vitamin-*K* oxide, III, 372. and McClung, L. S., aspergillosis in wild herring gulls, III, 203.
- Davis, W. B., quantitative field test for estimation of peroxidase, III, 272.
- Davis, W. E., Barry, A. J., Peterson, F. C., and King, A. J., X-ray studies of reactions of cellulose in non-aqueous systems. II. Interaction of cellulose and primary amines, II, 322.
- Davis, W. W. See Plentl, A. A.
- Davison, A. R., and Grasset, E., diphtheria toxoid in treatment of leprosy, III, 524. See also Grasset, E.
- Davison, C., disturbances in lipid metabolism and central nervous system, III, 579.
- Davison, M., and Aries, L. J., fallacy of use of iodine immediately after bilateral thyroidectomy, III, 320.
- Davison, W. C., relation of concentration of starch suspensions to their use as substrates for amylase of duodenal contents of infants, III, 124. Effect of pH and starch concentration of substrate on serum-amylase and amylase-accelerator of serum, III, 160. Enzymic therapy in infant feeding, III, 405. See also Kajdi, L.
- Davson, H., haemolytic action of potassium salts, III, 82. See also Duke-Elder, S., and Weld, C. B.
- Dawes, B., retinal pigment distribution in frog, III, 554. Melanin content of frog skin, III, 568.
- Dawson, C. R. See Miller, W. H., and Wasserman, D.
- Dawson, E. K. See Cameron, C.
- Dawson, H. L., cells in gall bladder mucosa of cats, III, 452.
- Dawson, H. M. See Bulcraig, W. R.
- Dawson, J., and Happold, F. C., tryptophanase-tryptophan reaction. VI. Carbohydrate-amino-acid relationships concerned in inhibition of indole production by glucose in cultures of *Escherichia coli*, III, 848.
- Dawson-Walker, E. F. See Herbert, F. K.
- Dax, E. C., arachnodactyly (dolichostenomelie of Marfan), III, 782.
- and Stone, D. M., immunisation with T.A.B. in paratyphoid fever, III, 527.
- Day, A. A. See Werch, S. C.
- Day, A. R. See Copeland, R. A. B., Jaffe, G. M., Steck, E. A., and Stein, C. W. C.
- Day, E. See Thorn, G. W.
- Day, H. B., immunisation by a species antigen. I. Preparation of species antigen from pneumococci, III, 437.
- Day, H. G. See Neumann, F. W.
- Day, P. L. See Shukers, C. F., and Totter, J. R.
- Day, R., Curtis, J., and Kelly, M., regulation of body temperature of premature infants, III, 668.
- Dayton, A. B., and Lindslog, G. E., patent ductus arteriosus complicated by subacute bacterial endarteritis: treated by chemotherapy and surgery, III, 460.
- Dayton, N. A., Moore, M., Kunberger, D. A., and Gray, M. G., alcoholism and mental disorders in Massachusetts, 1917-1933, III, 589.
- De, N. N. See Sahasrabuddhe, M. B.
- De, S. P. See Rao, S. S.
- De, S. S., antigenic properties of crystalline haemolysin, III, 925.
- Deamer, W. C. See Yeazell, L. A.
- Dean, E. M. See Russell, P. M. G.
- Dean, G. O., internal biliary fistulas, III, 125.
- Dean, R. B., and Fletcher, E. S., jun., micrometer burette, I, 167. and Vinograd, J. R., diffusion of solubilised dyes in water and through membranes, I, 125.
- Deane, C. W., and Huffman, J. R., kinetics in acid media; condensation of *o*-benzoylbenzoic acid, I, 231.
- Deane, H. W., hepatic-cell mitochondria in fatty liver produced by high-sugar diet, III, 544.
- Deanesly, R. M., and Carleton, L. T., additive physical properties in hydrocarbon mixtures, I, 87.
- Bearborn, E. H., Kelsey, F. E., Oldham, F. K., and Geiling, E. M. K., accumulation and excretion of atebriin, III, 761.
- Deb-Sarma, G. D., proteolytic enzyme of white gourd (*Benincasa hispida*), III, 520.
- DeBakey, M., acute perforated gastroduodenal ulceration, III, 483. See also Ochsner, A.
- De Beer, E. J. See Hjort, A. M., and Page, R. C.
- De Benedetti, S. See Shutt, R. P.
- De Bodo, R. C., Bloch, H. I., and Gross, I. H., role of anterior pituitary in adrenaline hyperglycaemia and liver glycogenolysis, III, 261.
- Bloch, H. I., and Slater, I., role of anterior pituitary in maintenance of normal blood-sugar levels and local mobilisation of liver-glycogen, III, 886.
- De Boer, F., distribution of intensities of spectral lines over the path of the spark, I, 213. Influence of concentration on intensity of spectral lines in the spark, I, 213.
- De Booy, J. See Bredée, H. L.
- De Bord, G. G., species of the tribes Mimeæ, Neisseriæ, and Streptococceæ which confuse diagnosis of gonorrhœa by smears, III, 689.
- De Bretteville, A., jun., X-ray high-temperature camera, I, 70. X-Ray examination of crystalline forms of anhydrous sodium stearate at room temperature, I, 251. and McBain, J. W., X-ray evidence for a third polymorphic form of sodium stearate, I, 147. X-Ray diffraction investigation of sodium stearate from room temperature to the m.p., I, 300. See also Buerger, M. J., and McBain, J. W.
- De Bruin, T. L., Klinkenberg, P. F. A., and Schuurmans, P., Th III spectrum, I, 1.
- De Burgh, P. M., and Lyons, R. N., precipitation in stored human serum, III, 863.
- Debye, P., reaction rates in ionic solutions, I, 20.
- De Capito, T. See Hardy, A. V.
- De Carvalho, H. G., relationship between viscosity and temperature, I, 274.
- De Castro, C. See Florencio, W.
- Decherd, G. M., jun. See Ehrhard, P. S.
- Decker, P., wing pigments of butterflies. XIII. Detection and determination of leucopterin, II, 20.
- Decker, R. M., relation of Eustachian tube to chronic progressive deafness, III, 317.
- De Courcy, T. L., case of mustard gas keratitis under constant observation for twenty years, III, 235.
- Dede, L., and Zieracks, H., oxidation of nickelous and cobaltous hydroxides by means of persulphate, I, 24.
- Dedusenko, N. I. See Brodski, A. E.
- De Eandi, F. F. See Fels, E.
- De Eds, F., protein-ascorbic acid complex in carrots, III, 903. and Thomas, J. O., phenothiazine. IX. Biliary excretion and anthelmintic action of thionol, III, 343. Excretion of phenothiazine, III, 344. See also Ambrose, A. M., and Thomas, J. O.
- Deeney, J., riboflavin deficiency, III, 499.
- Murdock, E. T., and Rogan, J. J., familial idiopathic methaemoglobinæmia, III, 624.
- Deere, C. J., "activation" of lactase of *Escherichia coli-mutabile*, III, 210.
- Dulaney, A. D., and Michelson, I. D., lactase activity of *Escherichia coli-mutabile*, III, 210.
- Dees, B. C., and Hamermesh, B., small-angle scattering of electrons by aluminium, I, 189.
- Dees, J. E., use of intrapelvic coagulum in pycloolithotomy, III, 566.
- Dees, S. C., and Morton, H., Weltmann reaction in respiratory diseases in children, III, 228.
- De Falco, R. J. See Arnow, L. E.
- De Faria, J. L., serous cells in hypophysis, III, 860.
- De Fernandez, M. del C. C. See Asenjo, C. F.
- Deffner, M., metabolism of *Aspergillus niger*. I. Degradation of citric acid, III, 352.
- Deflandre, G., fossilisation of diatoms in tertiary flints of Oran, I, 74.
- De Gara, P. F., bactericidal properties of synovial fluid, III, 686.
- Degering, E. F. See Feasley, C. F., Gwynn, B. H., Johnson, K., Rhodehamel, H. W., jun., and Sprang, C. A.
- Degmer, J. See Hersch, P.
- De Graff, A. C., and Batterman, R. C., persistent auricular premature systoles observed for 24 years, III, 460.
- and Lehman, R. A., acute toxicity of mercurial diuretics, III, 346.
- and Nadler, J. E., toxic effects of mercurial diuretics, III, 422.
- See also Burstein, C. L., and Eichna, L. W.
- De Gray, R. J., and Rittershausen, E. P., colorimetric determination of cobalt, I, 101. Separation of iron from cobalt or nickel, I, 164. Filtration cylinder, I, 240.
- De Groat, A., Kahn verification test in malaria, III, 771.
- Degtiarev, I. L. See Evetzki, G. N.
- De Haven, H., mechanical analysis of survival in falls from heights of 50-150 feet, III, 2.
- Dehlinger, U., equilibrium and nucleus formation in melting and freezing, I, 34. Intermetallic phases with partial heteropolar linkings, I, 224.
- and Kochendorfer, A., characteristic movements in crystal lattices, I, 222.
- Dehmeit, F. W. See Suhrmann, R.
- Dehn, W. M. See Henry, R. A.
- De Hoff, J. See Goldberg, J. D.
- Deichmann, W., determination of glucuronates in urine, III, 656.
- Machele, W., Kitzmiller, K. V., and Thomas, G., toxic effects of pentachlorophenol and sodium pentachlorophenoxyde on experimental animals, III, 346.

- Deischer, C. K. See Armstrong, E. V.
 Deitz, V. R., and Gleysteen, L. F., surface available to nitrogen on bone black and other carbonaceous adsorbents, I, 225.
 See also Hellerman, L.
- De Jong, H., and Simons, D. J., muscular fibrillation and tremor, III, 96.
- De Jonge-Bretschneider, A. See Bretschneider, H.
- De Jongh, T. W. See Cluver, E. H.
- De Kay, H. G. See Williamson, R. E.
- De Kispeczy, S. See Adler, Erich.
- De Kleine, W., control of pellagra [in U.S.A.], III, 576.
- De Kleyn, A. See Devivere, D. van, and Gerlings, P. G.
- De la Balze, F. A., Barbour and Hamilton's drop method [to determine plasma-proteins], III, 714.
- De Lacerda, D. T., mineral waters of state of Paraná, I, 27.
- Delahant, A. B. See Gardner, L. U.
- De la Mare, P. B. D., and Robertson, P. W., kinetics of aromatic halogenation. II. Chlorination of hydrocarbons, I, 231.
 See also Robertson, P. W.
- Delaney, H. See Barnes, R. P.
- De Langhe, F. See Deulofeu, V.
- De Larechea Muñoz, J., and Coll, A., increase in gonadotropins after ligation of ovaries, III, 812.
- De Larmo Cantião, A., determination of tungsten in its minerals, I, 25.
- Del Boca, C., and Zschokke, H., nutritional value of cocoa and chocolates, III, 751.
- Delbrück, M., and Luria, S. E., interference between bacterial viruses. I, III, 528.
 See also Luria, S. E.
- Del Castillo, E. B., and Di Paola, G., cyclical vaginal response to daily administration of oestradiol in castrated rats, III, 171.
 See also Di Paola, G.
- Del Conte, E. See De Robertis, E.
- Delépine, M., preparation and properties of camphormonoamides, II, 41.
 and Badoche, M., preparation of hexahydro-p-toluamides, II, 33. Hydrolysis of amides, II, 42.
- Delikat, E., intolerance to liver extract in pernicious anaemia, III, 545.
 See also Dyke, S. C.
- Deliwala, C. V., and Shah, N. M., aluminium chloride, a reagent for condensation of β -ketonic esters with phenols. VI. Condensation of resacetophenone with ethyl α -alkylacetocetates, II, 170.
 See also Ganapathi, K., and Shah, N. M.
- Della Vida, B. L., sedimentation rate and sedimentation index, III, 372.
 and Dyke, S. C., maximal responses to liver therapy in pernicious anaemia, III, 301.
 See also Dyke, S. C.
- Dell'Oro, R., renal hypertension and adrenalectomy in rats, III, 720.
 and Braun-Menendez, E., renin determination in blood of dogs during renal ischaemia, III, 720.
- Delor, R. A. See Buskirk, H. H.
- Del Pozo, E. C. See Rosenblueth, A.
- Delves, E. See Youmans, G. P.
- De Meillon, B., toxin from eggs of S. African ticks, III, 678.
- De Ment, J., fluorescence notation, I, 143.
- De Milt, C., Christopher Glaser, I, 104.
- Deming, C. L., development of prostatic hyperplasias, III, 175.
- Demjén, I. See Földi, Z.
- Demitz, A., and Dräger, K., testing of erysipelas cultures used in simultaneous active and passive immunisation of pigs, III, 63.
- De Montmollin, R., use of calcium diphenylhydantoinate in epilepsy, III, 138. Cranial (combined cerebral and ventricular) volume determination, III, 858. Positive scotoma in lead poisoning, III, 879.
- De Moraes Bastos, W. C., determination of aluminium by precipitation with phenylhydrazine, I, 285.
- Dempsey, E. W., and Astwood, E. B., determination of rate of thyroid hormone secretion at various environmental temperatures, III, 881.
- Dempsey, W. S., adrenal cortex in essential hypertension, III, 379.
- Dempster, R. R., influence of fluorescence on central intensities of solar D-lines, I, 109.
- Dempster, W. T., paraffin sectioning by microtome, III, 225. Distortions due to sliding microtome, III, 225. Paraffin compression due to rotary microtome, III, 368.
- Denamur, H. See Gorodetsky, S.
- Denard, L. F. See Gross, B.
- De Navasquez, S., acute laryngitis and septicæmia due to *H. influenzae* (type B), III, 436.
- Denenholz, E. J. See Rambar, A. C.
- Denice, E. C. See Luce, E. N.
- Deniges, G., analogies of azide ion with the halogens; copper azide, I, 160.
- Denison, N., lysins in blood of rats infected with *Trypanosoma cruzi*, III, 711.
- Denman, H. C., subacute bacterial endocarditis, III, 90.
- Dennen, W. H., nickel deposit near Dracut, Massachusetts, I, 242.
- Dennie, C. C., sulphathiazole toxicity, III, 584.
- Dennning, R. M., aluminium-bearing scorodite from Hobart Butte, Oregon, I, 243.
- Dennis, C., Burge, R. E., and Wangenstein, O. H., functional capacity of caecal appendage in birds and mammals, III, 396.
 See also Wangenstein, O. H.
- Deniston, R. H., jun., influence of Roentgen ray treatment of hypophysis and reproductive systems of ground squirrel and rat, III, 736.
- Deno, N. C. See Price, C. C.
- Denslow, J. S., and Hassett, C. C., central excitatory state associated with postural abnormalities, III, 794.
- Denstedt, O. F., Osborne, D. E., Stansfield, H., and Rochlin, I., survival of preserved erythrocytes after transfusion, III, 786.
- Dent, J. N., embryonic development of *Plethodon cinereus*, III, 155.
- Dent, R. F. See Miller, J. R.
- Denton, J. J. See Fuson, R. C.
- De Nunez, E. H., and Johnson, C. H., [constituents of leaves of] *Piper marginatum*, Jacq., III, 854.
- De Orme, K. B., Strait, L. A., and McCawley, E. L., ultra-violet spectrographic analysis of the fat fraction of mouse milk and mammary glands [in relation to cancer], III, 401.
- De Paiva Netto, J. E., manganese in soil of the state of São Paulo, III, 74.
- De Prume, F. J. See Cecil, R. L.
- Derbes, V. J., occupational seasonal hay fever and asthma due to narcissus bulbs, III, 612.
 and Engelhardt, H. T., incidence of bronchial asthma in white and negro, III, 634.
 See also Vaughan, W. T.
- Dereniuk, S. N. See Banner, R. E.
- De Rezende, N., cadaver nerve graft and "glue" suture, III, 465.
- Derjaguin, B., and Sidorenkov, G., thermooosmosis at ordinary temperatures and its analogy with thermochemical effect in helium II, I, 87.
- Derman, H., simple and complex periclinal tetraploidy in peaches induced by colchicine, III, 537.
- Dermelj, M. See Samec, M.
- Dermer, O. C., and Dermer, V. H., arylamine salts as derivatives for identifying aromatic sulphonnic acids, II, 125.
- and King, J., N-benzylamides as derivatives for identifying the acyl group in esters, II, 248.
 See also Dermer, V. H.
- Dermer, V. H., and Dermer, O. C., NN-di-n-butylhydroxylamine and its oxalate, II, 121. 4-Nitrodiphenyl ether-4'-sulphonyl chloride and -4'-sulphonamide, II, 129.
- See also Dermer, O. C.
- Dernehl, C. U. See Swann, H. G.
- De Robertis, E., intracellular colloid in initial stages of thyroid activation, III, 644, 806.
- and Del Conte, E., intracellular colloid of normal, hyper- and hypo-functioning thyroid in *Bufo arenarum*, III, 806.
- and Nowinski, W., effect of freezing and dehydration on tissue metabolism [and structure]. I. Respiration of frozen and dehydrated guinea-pig liver, III, 827.
- and Primavesi, L., cytology of neurohypophysis in rats deprived of water and in rats deprived of water and injected pitressin, III, 808.
- Deromedi, F. See Ordal, E. J.
- Deruaz, G., and Novel, E., bacteriological characteristics and clinical symptoms in cases of meningococcal meningitis, III, 64.
- Dervichian, D. G., structure of protein molecule, I, 194.
- Desai, B. N. See Barve, P. M., and Naipally, R. B.
- De Sanctis, A. G., Larkin, V. de P., and Gougelet, W. A., sulphonamides in otitis media, III, 672.
- De Santo, D. A., and Burgess, E., primary and secondary neurilemmoma of bone, III, 493.
- Deshapande, S. S., Kaweeshwar, S. N., and Bhagwat, W. V., parachor of organic compounds and their chemical constitution, I, 299. Parachors of thymol, menthol, and n-toluidine in different solutions, I, 299.
 See also Kauschal, R.
- Des Ligneris, M. J. A., local immunity to fowl sarcoma, III, 570.
- Desmaroux, J., Dalmon, R., and Vandoni, R., vapour pressures of nitric acid-chloroform and nitric acid-ethyl ether mixtures, I, 87.
- Desnuelle, P. See Fromageot, C.
- De Souza, P. R. See Do Valle, J. R.
- De Souza, V., and Sreenirayya, M., chromatographic removal of growth-promoting factors from natural glycerides, III, 446.
- Dessauer, G. See Hodge, H. C.
- Dessauer, P. See Pauli, W.
- De Takats, G., Beck, W. C., Fenn, G. K., Roth, E. F., and Schweizer, C., pulmonary embolism, III, 231.
- Fenn, G. K., and Jenkinson, E. L., reflex pulmonary atelectasis, III, 464.
- Heyer, H. E., and Keeton, R. W., surgical approach to hypertension, III, 93.
- See also Scupham, G. W.
- De Traz, C. See Meyer, K. H.
- Dettwiler, H. A. See Schmidt, L. H.
- Dettwiler, S. R., thirteen years of homologous function in normal and supernumerary grafted limbs, III, 366. Unilateral substitution of brachial region of spinal cord by corresponding half of medulla in *Ambystoma*, III, 707.
 and Copenhaver, W. M., embryonic enucleation in *Ambystoma*, III, 451.
- Deuber, C. G. See Vickery, H. B.
- Deuel, H. J., jun., and Davis, A., sex variation in carbohydrate metabolism. X. Comparative glucose tolerance of normal rats and those with fatty livers, III, 261.
- Hallman, L. F., Johnston, C., and Mattson, F. H., effect of high vitamin-A intake on blood- and milk-carotene of Holstein and Guernsey cows, III, 406.
 See also Bavetta, L. A., Johnston, C., and Mattson, F. H.
- Deulofeu, V., Labriola, R., and De Langhe, F., Argentine plants. V. Identification and characterisation of alkaloids in *Fagara coco* (Gill), Engl., II, 113.
 See also Berinzaghi, B.
- Deutsch, S. S., arachnodactyly with dislocated lenses, III, 166.
- Deutsch, E., *Phycomyces* test of vitamin-determination and its clinical use, III, 665.
- Determination, distribution, and excretion of *p*-aminobenzenesulphonacetyl amide, III, 672.
- Deutsch, F. See Waller, J. V.
- Deutsch, H. F., and Ott, G. L., vitamin-B₁ destruction by factor in raw smelt, III, 334.

- Deutsch, J. V. See Eggerth, A. H., and Yannet, H.
- Deutsch, M. See Elliott, L. G.
- Deux, J., dehydration of $\alpha\beta$ -distyryl[ethylene] glycol by sulphuric acid; formation of γ -phenyl- α -styryl- Δ^4 -butenaldehyde by a hydrobenzoin change followed by displacement of a double linking, II, 65.
- Devadatta, S. C. See Appanna, T. C., Namjoshi, A. N., and Rege, N. D.
- De Vaughn, N. M. See Cochran, W.
- DeVault, D., theory of chromatography, I, 199.
- De Villiers, J. E., gamagarite, a new vanadium mineral from the Postmasburg [Cape Province] manganese deposits, I, 244. Preliminary description of the new mineral partridgeite, I, 244.
- Devine, H., shock, III, 10.
- Devine, J., blood changes produced by administration of 4:4'-diamidinostilbene, III, 419. and Fulton, J. D., nature of malarial pigment present in infections of monkeys (*Macacus rhesus*) with *Plasmodium knowlesi*, III, 60. Pigment formed by *Plasmodium gallinaceum*, Brumpt, 1935, in domestic fowl, III, 601.
- Devine, J. W. See Woodhall, B.
- Devivere, D. van, and De Kleyn, A., new form of position nystagmus, III, 475.
- Devlin, H. B., and Mattill, H. A., determination of tocopherols in muscle, III, 258.
- Devonshire, G. E. G., methylatropine nitrate in dentistry, III, 516.
- Devrient, T. See Rothlin, E.
- De Vries, T. See Montgomery, J. B., and Walters, G. C.
- De Waal, H. L., Kanaar, A. C., and McNaughtan, J., antisulphanilamide action of procaine *in vivo*, III, 513.
- Dewar, D. C., allergic factor in idiopathic epilepsy, III, 234. Survey of skin testing [for protein-sensitivity]: method in epileptics, III, 778.
- Dewar, D. J. See Munro, L. A.
- Deweese, E. J., and Langner, P. H., jun., non-diabetic glycosuria, III, 248.
- Dewey, B. T., and Poe, C. F., artificial medium for pigment production by genus *Serratia*, III, 922. and Witt, N. F., semi-micro-Kjeldahl apparatus, I, 187. See also Plein, E. M.
- De Winn, E. B. See Bernstein, M.
- De Wit, G., professional deafness in naval staff, III, 475.
- De Witt, B. J. See Seltz, H.
- De Witt, C. C., correlation of rate data, I, 230.
- De Witt, T. W. See Emmett, P. H.
- Dey, F. L., hypothalamic control of hypophyseal gonadotropic functions in female guinea-pigs, III, 873. Failure to induce ovulation in constant-oestrus guinea-pigs, III, 887.
- Deysach, L. J. See Ray, T. W.
- Dezideriev, G. P. See Bogorodski, A. J.
- Dhar, N. R., influence of temperature on slow and induced oxidation of glucose in the dark, I, 65.
- Dharmatti, S. S. See Prasad, M.
- Diaca, C., histological changes in testes of newborns and children, III, 244.
- Diachun, S. See Valleau, W. D.
- Diack, A. W. See Nichols, H. M.
- Diamante-Lichtenstein, J. See Fodor, P. J.
- Diatkina, M. E., ionic character of links and polarity of molecules. II, I, 117. Rasumovsky's theory of structure of organic compounds, I, 117. and Sirkin, J. K., structure of boron hydrides I, and II, I, 54, 299. See also Sirkin, J. K.
- Diaz, C. J., treatment of bronchial asthma, III, 95.
- Diaz, J. T., pseudohermaphroditism, III, 481.
- Diaz-Rivera, R. S. See Siarez, R. M.
- Dible, J. H. See Bywaters, E. G. L.
- Dick, G. F., sodium sulphadiazine in subacute bacterial endocarditis, III, 582.
- Dick, L. A. See McCullough, N. B.
- Dick, R. C. S., and Hurst, A., chronic peptic ulcer of oesophagus and its association with congenitally short oesophagus and diaphragmatic hernia, III, 395.
- Dicke, R. H., and Marshall, J., jun., inelastic scattering of protons, I, 174.
- Dicken, D. M. See Landy, M.
- Dickens, F., and Weil-Malherbe, H., carcinogenesis. I. Effect of lipid solvents on tumour production by 3:4-benzpyrene, III, 181. Possible carcinogenic activity of wood smoke, III, 401. Metabolism of normal and tumour tissue. XX. Comparison of metabolism of tumours of liver and skin with that of tissue of origin, III, 818.
- Dickens, K. L. See Goldmann, B. A.
- Dicker, S. See Bickel, G.
- Dickey, F. G. See Elsom, K. A.
- Dickie, L. F. N. See Thompson, W. O.
- Dickinson, D., colorimetric determination of boron, I, 162.
- Dickinson, R. G. See Noyes, R. M.
- Dickman, S. R. See Carter, H. E.
- Dickson, H., relation of yeast multiplication to composition of apple juice, III, 143.
- Dickson, O. C. See Cordes, F. C.
- Diddle, A. W., Nagyj, S. F., and Sells, R. L., comparative effects of orally administered α -oestradiol and stilboestrol on post-partum breast engorgement, III, 120.
- Didenko, A. M., and Pokrovski, N. L., measurement of temperature coefficient of surface tension of mercury, I, 299.
- Dieckmann, W. J., and Kramer, S., proteinuria in pregnancy toxæmia, III, 479.
- Diehl, H. S. See Cowan, D. W.
- Diemair, W., and Hausser, H., peroxidase. II. Presence of peroxidase in plant and animal products, III, 840.
- Dienes, L., and Smith, W. E., reproduction of bacteria from large bodies of *B. funduliformis*, III, 356.
- Dienst, R. B., use of fluoroscopic method for diagnosis of *M. tuberculosis* in sputum, III, 286.
- Dieterle, W., preparation and reactions of 2-methylhexahydrobenzthiazole, II, 17.
- Diethelm, O., historical review of psychiatric treatment, III, 100.
- Dietz, N. See Slutzky, B.
- Dietz, R. S., clay minerals in recent marine sediments, I, 212.
- Emery, K. O., and Shepard, F. P., phosphorite deposits on sea floor off Southern California, I, 323.
- Di Fiore, M. S. H., agglomerular kidney in two *Lophobranchia*, III, 815.
- Di Fonzo, M. See Ciusa, R.
- Diggs, L. W., efficiency of equipment used in collection of blood for transfusion. I. Needles and adapters, III, 226. Improved needle and observation tube for collection of blood for transfusion, III, 369.
- Dill, L. V., Isenhour, C. E., Cadden, J. F., and Kuder, A., effect of repeated pregnancies on rabbits with renal hypertension, III, 631. See also Schaffer, N. K.
- Dille, J. M. See Kopet, J. C., and Seeberg, V. P.
- Dillon, R. T. See Van Slyke, D. D.
- Dillon, T. W. T., glucose excretion by rabbit kidney, III, 179.
- Dilthey, W., and Leonhard, M., highly arylated aromatic compounds. X. Action of quinones on phencycline, II, 267.
- Dilworth, R. I. See Becker, E. R.
- Dimick, K. P., determination of tyrothricin, III, 846. and Christensen, B. E., fructosan from *Yucca mohavensis*, Sarg., II, 57.
- Dimmick, F. L., methodology in test preparation, III, 804.
- Dimroth, K., and Jonsson, H., steric junction of rings C and D in steroids, II, 331. and Stockstrom, E., attempted synthesis of the antirachitic vitamin. XI. Partial synthesis of vitamin-D₂ and its 3-epi-compounds, II, 136.
- Dimsey, G., reagent chemicals—preparation and properties, I, 184.
- Dine, R. F., and Lavietes, P. H., serum-magnesium in thyroid disease, III, 237.
- Dingle, H., dimensions of physical magnitudes. III. Electric and magnetic magnitudes, I, 300.
- Dingle, J. See Gregg, D. E.
- Dingle, J. H. See Chandler, C. A., and Thomas, L.
- Dingle, P., renal failure following abortion, III, 894.
- Dingley, A. R., nasal intubation: dangers and difficulties from rhinological aspect, III, 652.
- Dings, M., geology of the Stony Mountain stock, San Juan Mountains, Colorado, I, 324.
- Dimolt, R., sense of smell, III, 805.
- Dinwiddie, J. A. See Griswold, J.
- Di Palma, J. R., qualitative alterations in hyperemic responses to local ischaemia of smallest blood vessels of human skin following systemic anoxia, hypercapnia, acidosis, and alkalosis, III, 377. and Foster, F. I., sensitivity of smallest cutaneous blood vessels; quantitative responses to graded mechanical stimulation and to local ischaemia in arterial hypertension, arteriosclerosis, and allied disorders, III, 230.
- See also Reynolds, S. R. M.
- Di Paola, G., and Del Castillo, E. B., cyclical endometrial response to prolonged administration of oestradiol in castrate women, III, 31.
- See also Del Castillo, E. B.
- Dippel, A. L., tubal sterilisation by Madlener method, III, 325.
- Director, W., and Bluetar, S. M., familial occurrence of acrodermatitis atrophicans chronica, III, 181.
- Dirscherl, W., and Nahm, H., two different 2:4-dinitrophenylhydrazones of ethyl isopropyl ketone and the 2:4-dinitrophenylhydrazones of other methyl and ethyl ketones, II, 252.
- and Traut, H., sex hormones and related substances (sterols). XIII. Formation of cholesterol in the animal body, III, 669.
- Dische, Z. See Lewisohn, R.
- Dishbein, W. I. See Rambar, A. C.
- Dishoeck, H. A. E. van, negative pressure and loss of hearing in tubal catarrh, III, 474.
- DiSomma, A. A. See Trelease, S. F.
- Ditkowsky, S. See Butler, C. D.
- Dittrich, W. W. See Göttlicher, F.
- Divilkovski, M., measurement of dielectric loss in solids at very high frequencies, I, 85.
- Divine, J. P. See Jones, D. B.
- Dix, I. W. See Myers, A. T.
- Dixon, G. J., and Fitzgerald, G., anterior and posterior fossa cerebral tumours, III, 467.
- Dmitriev, N. N., transition effect air-water for heavy particles due to cosmic rays, I, 48.
- Doak, G. O. See Eagle, H.
- Doan, C. A., Beard, M., Merino, C., Saslaw, S., Schwab, J. L., and Woolpert, O. C., reactions of monkeys to re-inoculation with *Strep. haemolyticus*, III, 692. See also Merino, C., Schwab, J. L., and Woolpert, O. C.
- Doan, G. E. See Schier, R. J.
- Dobbie, J. N., prevention of chronic otitis and deafness, III, 236.
- Dobbins, J. M., and Rappaport, H., lipoid nephrosis complicated by pneumococcus peritonitis, III, 330.
- See also Brescia, M. A.
- Dobbins, J. T., and Kapp, M. E., semi-micro-scheme of qualitative analysis for the anions, I, 262. and Southern, J. A., semi-micro-scheme of qualitative analysis, I, 163.
- Dobbs, R. H. See Mackay, H. M. M., and Wills, L.

- Dobeneck, H. von, pentduopent reaction. V., II, 46.
- Dobrick, R. See Frommel, E.
- Dobriner, K., Gordon, E., Rhoads, C. P., Lieberman, S., and Fieser, L. F., steroid hormone excretion by normal and pathological individuals, III, 29.
- Dobrinskaja, A. A., and Neiman, M. B., polarographic determination of organic peroxides, II, 286.
- Dobrovolskaja-Zavadskaja, N., microcrystallisation of protein-containing fractions, III, 397.
- Dockerty, M. B. See Sprague, R. G.
- Dodd, B. E. See Boorman, K. E.
- Dodd, H., and Prescott, F., pressor action of methedrine in surgery, III, 311.
See also Barrows, E. F.
- Dodds, E. C., Lawson, W., and Williams, P. C., morphine-like properties of diphenylethylamine and related compounds, III, 763.
- Dodds, E. P., convulsive treatment of climacteric depression, III, 553.
- Dodds, G. M. See Hamilton, W. J.
- Dodds, G. S., and Cameron, H. C., relation of rickets to growth, with reference to bones, III, 503.
- Dode, M., equilibrium pressure of univariant systems, I, 62.
- Dodge, A. A., and Kremers, E., isophorone and its derivatives, II, 188. Isomeric α -menthenes (carvomenthenes), II, 202.
- Dodge, D. V., identification of opaque minerals by electrochemical methods, I, 289.
- Donges, E. See Fricke, R.
- Dörfling, H. See Scheibe, G.
- Doring, W., reversible processes in magnetic materials with small internal strains, I, 223.
- Doering, W. E. See Linstead, R. P.
- Dorner, H. See Micheel, F.
- Dohan, F. C. See Lukens, F. D.
- Doherty, D. G., Tietzmann, J. E., and Bergmann, M., peptides of dehydrogenated amino-acids, II, 230.
- Doty, E. A. See Katzman, P. A., Roberts, E. C., and Van Bruggen, J. T.
- Doisy, E. A., jnn., and Westerfeld, W. W., relationship of acetoin to metabolic acetylations, III, 829.
- Doja, M. Q., and Prasad, D., cyanine dyes of pyridine series. III, II, 172. Photographic sensitizers derived from quinaldine, II, 385.
- Dokras, V. M. See Guha, P. C.
- Dokunichin, N., and Levin, E., structure of indigoins on basis of spectral data, I, 49.
- Dole, T. P. See Emerson, K. jnn.
- Dolger, H. See Pollack, H.
- Doljanski, L., and Pikovski, M., agent of fowl leucosis in tissue cultures, III, 332.
- and Tenenbaum, E., Rous sarcoma cells cultivated *in vitro*. I. Cellular composition of pure cultures of Rous sarcoma cells, III, 490. Cytoplasmic changes in Rous sarcoma cells cultivated *in vitro*, III, 897.
See also Werner, H.
- Domagk, G., sulphonamide therapy of bacterial infections, III, 135.
- Domanski, B. See Steiner, A.
- Domenjoz, R., and Fleisch, A., effect of drugs on circulation and on spleen volume, III, 675.
- Dominguez, R., and Pomerene, E., urea clearance and diuresis in man, III, 746.
- Domm, L. V., and Davis, D. E., sexual behaviour of intersexual domestic fowl, III, 650.
- Davis, D. E., and Taber, E., comparison of erythrocyte numbers in normal and [sex] hormone-treated fowl, III, 710.
See also Davis, D. E.
- Dommers, P. See Necheles, H.
- Donahue, D. D. See Oettingen, W. F. von.
- Donaldson, G. M. See Davidson, L. S. P.
- Donaldson, J. K., and Sive, E. B., venous mesenteric occlusion, III, 231.
- Donaldson, R., Harding, H. G. W., and Wright, G. P., standardisation of Haldane haemoglobinometer, III, 454.
- Donisch, I., Gruneberg, H., and Pearson, J. E. G., occurrence of siderocytes in adult human blood, III, 225.
- Mottram, J. C., and Weigert, F., fluorescence of 3:4-benzpyrene *in vitro*. I. Distribution of fluorescence at various sites, especially skin of mice. II. Interrelationship of derivatives formed in various sites, III, 488.
- Donnay, J. D. H., crystalline morphology of scheelite group, I, 170. Morphological expression of tetragonal space-groups, I, 250. Derivation of the 32 point-groups, I, 250. Rules for conventional orientation of crystals, I, 272.
- Donnelly, G. L. See Holman, R. L.
- Donoso, R. See Huidobro, F.
- Donovan, A. See Hargett, M. V.
- Dontsova, E. I., kinetics of reduction of Cu⁺⁺ to Cu⁺ by carbon monoxide in ammonia solution, I, 310.
- Dooley, M. S. See Robbs, J. S.
- Doooley, S. W. See Olcott, C. T.
- Do Prado, A., kinephontic theory of atoms, I, 273.
- Do Prado, L. C., accurate formula for barometric corrections, I, 288.
- Dore, W. H., calculation of valency angle [of carbon atom], I, 82.
- Dorf, G. B., accelerated effects on growth during treatment [with gonadotropin], III, 393.
- Dorfman, A., and Koser, S. A., action of sulphonamide compounds, III, 333.
See also Koser, S. A., and Miller, B. F.
- Dorfman, F. See Foster, C.
- Dorfman, R. I., Horwitt, B. N., and Fish, W. R., presence of cortin-like substance (cold-protecting material) in urine of normal men, III, 559.
- Dorinson, A., McCorkle, M. R., and Ralston, A. W., refractive indices and densities of normal saturated fatty acids in liquid state, I, 119.
- Dormer, B. A., and Gibson, M., vitamin-A deficiency in tuberculosis and diabetes and effect of various therapeutic preparations, III, 407.
- Dornow, A., and Karlson, P., synthesis of 2-aminopyridine derivatives, II, 276.
and Machens, H., reduction of 3-acetyl-picolines, II, 242.
See also Baumgarten, P.
- Dorojevic, F. V. See Stefanovskaja, Z. F.
- Dorrance, S. S., Thorn, G. W., Tyler, F. H., and Katzin, B., work performance of normal rats under anoxia, III, 12.
See also Thorn, G. W.
- Dosch, F., staining of bacterial capsules with prontosil soluble, III, 144.
- Doshay, L. J., and Ford, T. R., moderate dosage atropine treatment of Parkinsonism, III, 234.
- Dosse, C. See Selye, H.
- Doss, K. S. G., and Rao, B. S., pulsations on mercury surface caused by polarisation, I, 279.
- Dosse, J., and Müller, H. O., resolving power of emission microscope, I, 102.
- Dostert, R. See Labarre, J.
- Dostrovsky, A., and Sagher, F., experimentally induced disappearance and re-appearance of lesions of hidrocystoma [by means of atropine and pilocarpine], III, 420.
- Doty, E. See Starr, P.
- Doubilet, H. See Shafiroff, B. G. P.
- Doud, E. A., and Rovenstine, E. A., changes in velocity of the blood flow during spinal anaesthesia, III, 911.
and Tytell, J. E., massive intramedullary infusions [*i.e.*, into bone marrow], III, 631.
- Doudoroff, M., luminous bacteria. I. Nutritional requirements, with reference to methionine. II. Anaerobic metabolism of facultatively anaerobic species, III, 279.
- Kaplan, N., and Hassid, W. Z., phosphorolysis and synthesis of sucrose with a bacterial preparation, III, 599.
- Dougherty, G. See Haas, O.
- Dougherty, J., and Homans, J., venography, III, 631.
- Dougherty, R. W. See Jones, I. R.
- Doughty, M. A. See Balfe, M. P.
- Douglas, A. A., biliary pain, III, 485.
- Douglas, H. C. See Max, E. M.
- Douglas, J. R. and Wheeler, C. M., sylvatic plague studies. I. Convenient individual mouse jar. II. Fate of *Plague* pest in the flea, III, 276, 324.
See also Evans, F. C., and Wheeler, C. M.
- Douglass, D. D. See Sulkin, S. E.
- Dounce, A. L., enzymes of isolated cell nuclei of rat's liver, III, 517.
and Howland, J. W., crystalline beef liver catalase dried in frozen state, III, 426.
- Doval, J. H. See Erganian, J. A.
- Do Valle, J. R., and De Souza, P. R., endocrine system of snakes, III, 810.
- Dove, M. A. See McDevitt, E.
- Dove, R. F. See McDevitt, E.
- Dove, W. F., linear arrangement of palatability of natural foods with an example of varietal preference in Leguminose and Cruciferous by new, rapid laboratory method, III, 573.
- Dow, R. S., cerebellar action potentials in response to stimulation of cerebral cortex in monkeys and cats, III, 14.
and Anderson, R., cerebellar action potentials in response to stimulation of proprioceptors and exteroceptors in rat, III, 795.
See also Larsell, O.
- Dowdy, A. H., Roentgen-ray therapy of skin cancer overlying cartilage and bone, III, 199.
- Dowling, H. F., Hartman, C. R., Feldman, H. A., and Jenkins, F. A., comparative value of high and low doses of sulphadiazine in treatment of pneumococcal pneumonia, III, 582.
- Downing, M. L. See Hockett, R. C.
- Downing, T. F. See McCoy, O. R.
- Downs, C. M., effect of bactericidal agents on Gram-negative cocci, III, 604.
- Downard, E., and Russo, M., electrically-heated m.p. apparatus, I, 185.
- Doyle, B. J. See Fischer, R. G.
- Doyle, J. C., mucocoele of appendix, III, 329.
- Drabkin, D. L., spectrophotometric studies. I. Structural interpretation of the spectra of cyanide, pyridine, and carbon monoxide derivatives of cytochrome-c and haemoglobin, I, 114.
See also Rosenthal, O.
- Dracass, W. R., and Foster, G. E., assay of solutions of stilboestrol dipropionate in oil, III, 649.
- Drack, G., "permonid compositum" in surgery, III, 676.
- Drager, K. See Demnitz, A.
- Dragomirov, N., development of neural plate structure without induction in explanted axolotl ectoderm, III, 223.
- Dragstedt, C. A., significance of histamine in anaphylaxis and allergy, III, 533.
- Clark, D. E., Julian, O. C., Vermeulen, C., and Goodpasture, W. C., arteriosclerosis in pancreatic diabetes, III, 483.
- Wells, J. A., and Rocha e Silva, M., inhibitory effect of heparin on histamine release by trypsin, antigen, and protease, III, 302.
- Dragulescu, C. See Murgulescu, I. G.
- Dragutsky, D. See Schwartzman, J.
- Drahowral, F. See Suida, H.
- Draize, J. H. See Lang, E. P.
- Draper, D. R. See Ball, L. W.
- Draper, G., emotional component of [peptic] ulcer-susceptible constitution, III, 124.
- Dravnieks, A., and Straumanis, M., polarographic technique, I, 72.
See also Straumanis, M.
- Drea, W. F., growth of small numbers of tubercle bacilli, H37, in Long's liquid synthetic medium and interfering factors, III, 439.
- Dreesen, W., health of lead-exposed storage-battery workers, III, 914.
- Dreisbach, R. H., and Pfeiffer, C., caffeine withdrawal headache, III, S74.

- Dreisbach, R. H. See also Pfeiffer, C.
- Drenan, J. W. See Foster, L. S.
- Drew, H. D. K., electron mass in relation to energy of formation of the atoms : calculation of isotopic and atomic weights, I, 293.
- Dreyfuss, M. L. See Plaut, A.
- Drikos, G. See Schwab, G. M.
- Drilhon, A., destruction of medulla and adaptation to changes in salinity in the carp, a homeo-osmotic fish, III, 164.
- Drill, V. A., liver function and dietary yeast in hyperthyroidism, III, 247.
- and Hays, H. W., relation of liver function, pulse rate, and temperature of hyperthyroid dogs to vitamin-B₁ and yeast, III, 107.
- Leathem, J. H., and Overman, R., relation of B-vitamins to ovarian function during experimental hyperthyroidism, III, 888.
- Overman, R., and Shaffer, C. B., effect of B vitamins on liver-glycogen of thyroid-fed rats, III, 36.
- and Shaffer, C. B., effect of vitamin-B₁ and yeast on caloric intake and weight balance of hyperthyroid dogs, III, 321.
- See also Swingle, W. W.
- Drinberg, M. See Meneghelli, J.
- Drinker, C. K. See Glenn, W. W. L.
- Drinker, N., and Zinsser, H. H., equilibrium between calcium and cephalin in various systems, III, 517.
- Dripps, R. D., and Dumke, P. R., effect of narcotics on balance between central and chemoreceptor control of respiration, III, 463.
- Driscoll, R. E. See Osborne, S. L.
- Drobkov, A. A., influence of cerium, lanthanum, and samarium on development of peas, III, 291. Effect of radioactive elements and rare earths on yield and rubber content of kok-saghyz, III, 291.
- Droscher, T. See Küntzel, A.
- Dromidova, N., sperm and Sertoli cells of rat in tissue culture, III, 224.
- Drosdoff, M., and Painter, J. H., chlorosis and necrosis of tung leaves associated with low potassium content, III, 613.
- Drossbach, P., theory of the electric arc furnace. I. and II., I, 238, 265.
- Druce, G., development of alchemy in Bohemia, I, 104.
- Drucker, C., partial specific volumes in binary and ternary solutions, I, 179.
- Druckerman, L. J. See Penner, A.
- Druey, J., and Meier, R., solubility of sulphathiazole and acetyl sulphathiazole in urine, III, 418.
- Drummond, F. H. See Agar, W. E.
- Drummond, R., transfusion reaction and fatalities due to circulatory overloading, III, 868.
- Drury, D. R., control of blood-sugar, III, 87. See also Pauls, F.
- Drushinin, I. G., salt reserves of Lake Ebeitz, I, 73.
- Dryden, C. See Dryden, L.
- Dryden, C. E., ternary and binary vapour-liquid systems; tie-line interpretation for phase equilibrium relations, I, 202.
- Dryden, L., and Dryden, C., heavy minerals and history of the Coastal Plain, I, 292.
- Dsheleпов, B., and Константинов, А., β-spectrum of radioactive tungsten, I, 112.
- Dubin, I. N., and Kerby, G. P., *Bacillus coli* pneumonia, III, 848.
- Dublin, L. I., and Marks, H. H., inheritance of cardiovascular disease [judged by life insurance statistics], III, 460.
- Dublin, T. D., Rogers, E. F. H., Perkins, J. E., and Graves, F. W., milk-borne outbreaks due to serologically typed haemolytic streptococci, III, 357.
- Dublin, W. B., and Larson, C. P., pathological findings in poliomyelitis, III, 466.
- Du Bois, A. M., colloidopexy in the snail, III, 38.
- Du Bois, E. F., and Chambers, W. H., calories in medical practice, III, 403.
- Du Bois, K. P., Albaum, H. G., and Potter, V. R., adenosine triphosphate in magnesium anaesthesia, III, 506.
- and Potter, V. R., preparation of hexose diphosphate, hexose monophosphate, and phosphoglyceric acid, II, 123. Activation of adenosinetriphosphatase system by acetylcholine, III, 684.
- See also Potter, V. R.
- Dubos, R. J., adaptive production of enzymes by bacteria, III, 60.
- Hoberman, H. D., and Pierce, C., toxicity of cultures of *Shigella dysenteriae*, III, 285.
- Duboux, M., and Vuilleumier, C., hydrogen-ion activity and hydrolysis of sucrose and methyl acetate in concentrated hydrochloric acid containing alkaline-earth chlorides, I, 91. Activity of chloride ion in concentrated solutions of hydrochloric acid containing alkaline-earth chlorides, I, 91.
- Dubrisay, R., action of fatty acids on copper, I, 40.
- Duckert, R. See Wenger, Paul.
- Duckworth, J., and Warnock, G. M., magnesium requirements of man in relation to calcium requirements; adequacy of diets in common use, III, 129.
- Duclaux, J. P. E., representation of vapour pressures, I, 57.
- Dudan, A., histamine iontophoresis and bronchial asthma, III, 634.
- Dudley, H. C., and Miller, J. W., toxicology of selenium. VI. Effects of subacute exposure to hydrogen selenide, III, 268.
- Sweeney, T. R., and Miller, J. W., toxicology of acrylonitrile (vinyl cyanide). II. Effects of daily inhalation, III, 835.
- See also Lawton, A. H.
- Dudman, V. E., disgerminoma and arrhenoblastoma, III, 242.
- Dufait, R. See Massart, L.
- Duff, A. See Haworth, J.
- Duffendack, O. S. See Picard, R. G.
- Duffe, D. H., haemoglobinometer, III, 227.
- Duffin, J. D., cortical necrosis of adrenal glands associated with Addison's disease, III, 646.
- Duffin, W. M., and Smith, Sydney, penicillic acid, an optically active acid from penicillin, II, 115.
- Duffner, G. J., and Whitehead, R. W., effects of oestrone, diethylstilboestrol, and testosterone on *in-vitro* response of spayed rat uterus to pitocin, III, 171.
- Dufrenoy, J. See Reed, H. S.
- Dugal, L. P., and Laugier, H., experiments on wound healing; effects of oxalic acid, oxalates, and calcium-precipitating substances, III, 585.
- Dugan, L., jun., and Haendler, H. M., benzylideneaminomorpholine compounds, II, 108.
- Duggan, E. L., and Schmidt, C. L. A., dissociation of amino-acids in dioxan-water mixtures, I, 278. Effect of neutral salts on dissociation of amino-acids in dioxan-water mixtures, I, 278.
- Duggan, L. B., and Powers, W. L., acute respiratory infection resembling so-called acute pneumonitis, III, 307.
- Duggan, W. F., tangent screen scotometry, III, 554. Clinical vascular physiology of eye, III, 730.
- Duggar, B. M. See Dutton, H. J., and Henry, B. W.
- Duis, B. See Harris, Lewis E., and Holck, H. G. O.
- Duke, F. R. See Smith, G. F.
- Duke-Elder, S., and Davison, H., significance of distribution ratios of non-electrolytes between plasma and intra-ocular fluid, III, 876.
- Dulaney, A. D., and House, V., precipitative tests in malaria, III, 686.
- Stratman-Thomas, W. K., and Warr, O. S., diagnostic value of complement fixation in malarial, III, 275.
- See also Deere, C. J.
- Dulhunty, J. A., stratigraphical arrangements and occurrence of torbanite deposits in the Upper Kamilaroi coal measures of New South Wales, I, 212.
- Dulin, J. W. See Crowell, E. A.
- Dultz, G., identification and determination of β-phenylisopropylamine and β-phenylpropylmethylamine, II, 316.
- Dumas, A. G. See Ziskin, T.
- Dumazert, C., and Michel, R., action of aqueous sodium hydroxide on starch; strengthening of intramolecular linkings, II, 57.
- Drumke, P. R. See Dripps, R. D.
- Dumm, M. E., histochemical studies of rat liver during embryonic development, III, 484.
- Du Mond, J. W. M. See Panofsky, W. K. H.
- Dumontel, E. See Ciocca, B.
- Dumpert, G. See Freudenberg, K.
- Dunbar, P. See Lytle, J. D.
- Dunbar, R. E., [apparatus for] laboratory hot air blast, I, 267.
- See also Bolstad, L.
- Duncan, G. H., treatment of prostatic carcinoma by oestradiol and diethylstilboestrol, III, 898.
- Duncan, G. W., inorganic phosphorus content of serum in shock, III, 375.
- Hyman, C., and Chambers, E. L., determination of blood pressure in rats by direct observation of blood vessels, III, 790.
- Duncan, I. J., determination of furfuraldehyde, II, 148.
- Duncan, J. See Forbes, R. D., and Wokes, F.
- Duncan, J. McK. See Williams, R.
- Duncan, J. T., and Walker, Jacqueline, *Staphylococcus aureus* in milk of nursing mothers and alimentary canal of their infants, III, 437.
- Duncan, M. T. See Welch, C. A.
- Dunham, W. B., and MacNeal, W. J., culture on chick chorio-allantois as test of inactivation of vaccinia virus, III, 288. Inactivation of vaccinia virus by mild antiseptics, III, 777.
- Dunken, H., stoichiometric association of dipolar molecules in solution, I, 152.
- Dunker, C. F., Fellers, C. R., and Esselen, W. B., jun., determining vitamin-C with a 25-day weight-response bioassay, III, 257.
- Dunker, M. F. W. See Riegel, B.
- Dunkerley, F. J. See Seitz, H.
- Dunlap, C. E., effects of radiation on blood and haemopoietic tissues, III, 54.
- and Warren, S., incidence of primary lung tumours in mice with induced sarcomas, III, 401.
- Dunlap, K., and Loken, R. D., anomalies of colour vision, III, 236.
- Dunlop, D. M., deoxycorticosterone in Addison's disease, III, 558.
- Dunn, C. G., uses of micro-organisms in production of chemical products, III, 431.
- Dunn, F. L., Rahm, W. E., jun., and Cochran, R. M., electrostethography; cathode-ray visualisation of lung chest sounds, III, 89.
- Dunn, H. See Tillett, W. S.
- Dunn, H. C., Murphy, J. M., and Garrett, O. F., nature of material in mastitic milk responsible for the Whiteside reaction, III, 488.
- Shuart, C. E., and Garrett, O. F., effect of amphyll on bull sperm, III, 480.
- Dunn, J. A., banded haematite ores, I, 170.
- Dunn, J. S., Kirkpatrick, J., McLetchie, N. G. B., and Telfer, S. V., necrosis of islets of Langerhans produced experimentally [by alloxan], III, 883.
- McLetchie, N. G. B., and Sheehan, H. L., experimental necrosis of islets of Langerhans, III, 735.
- Dunn, M. S. See Albrecht, G., and Frieden, E. H.
- Dunncliffe, H. B., discovery of deposits of sodium sulphate at Didwana [Jodhpur], I, 188.
- See also Mukhopadhyay, B. K.
- Dunoyer, J. M., reduction by hydrogen of lead and silver oxides, I, 67.
- Dunphy, J. E., and Keeley, J. L., transplantation of adrenal gland, III, 390.

- Dunstan, A. E., and Nissan, A. H., three types of energy of viscosity, I, 274.
- Duntley, S. Q., mathematics of turbid media, I, 272.
- Du Pan, R. M., modifications of Widmark's method for determination of alcohol in blood, III, 459.
- Duquénois, P., and Amal, H., action of phenylcarbamide on 4-hydroxymethylantipyrine, II, 339. Action of phosphorus pentachloride and thionyl chloride on antipyrine-4-carboxylic acid, II, 340.
- and Sezer, Z., bromine value of aromatic ethylenic ketones, II, 328.
- Duran-Jorda, F., formation of red blood corpuscles, III, 710.
- Duran-Reynals, F., tissue permeability and spreading factors in infection: a contribution to the host-parasite problem, III, 431.
- See also Fekete, E.
- Durand, E. A. See Strong, L. C.
- Duras, F. P., hysterical hyperpyrexia, III, 164.
- Durbin, E. See Rhodes, P. H.
- Durfee, O., classification of 110 strains of *Staphylococcus aureus*, III, 283.
- Durham, (Miss) D. A. See Price, C. C.
- Durham, R. H. See Jahsman, W. E.
- Durham, W. B., egg inoculator and shell membrane teaser for virus culture, III, 287.
- Durie, B., and Wyndham, N. R., description of two human specimens with congenital absence of spleen, abnormal arrangement of the great vessels, abnormal cardiac cavities, and other congenital defects, III, 154.
- Durkee, R. E. See White, B. V.
- Durlacher, S. H. See Winkler, A. W.
- Durrett, J. J. See Welch, H.
- Dury, A. See Fraps, R. M.
- Dusenberry, E. D. See Seeler, A. O.
- Du Shane, G. P., embryology of vertebrate pigment cells. I. Amphibia, III, 618.
- Duspiva, F., and Bergold, G., peptidase and phosphatase determinations in polyhedral virus of *Lymnaea monacha*, L., III, 359.
- Dutcher, R. A. See Chornock, C.
- Du Toit, A. E., nasal region of chondrocranium of *Elephantulus*, III, 449.
- Dutra, F. E. See Fishback, H. R.
- Dutt, N. K., and Mukerji, B., bioassay on tadpoles of thyroxine and similar preparations, III, 22.
- Dutt, S. See Bhargava, P. N., and Malavya, B. K.
- Dutta, A. K., and Ghosh, B. B., propagation of elastic waves through electrolytic solutions, I, 274.
- Dutta, N. K. See Guha, R. C.
- Dutta, P., constitution of natural coumarins of *Toddalia aculeata*, II, 170.
- Dutta, P. C., and Sinha, R. M., indigoid dyes. X., II, 16.
- Dutton, H. J., and Bailey, G. F., modification of Cenco spectrophotometer permitting measurements of reflexion and fluorescence spectra, I, 238.
- Manning, W. M., and Duggar, B. M., chlorophyll fluorescence and energy transfer in the diatom *Nitzschia closterium*, I, 248.
- Duval, A. M. See Lewis, R. C.
- Du Vigneaud, V. and Melville, D. B., structure of biotin: dethiobiotin, II, 111.
- See also Hofmann, K., Irving, G. W., Kilmer, G. W., Melville, D. B., Schenck, J. R., and Simmonds, S.
- Dwan, P. F. See Hansen, A. E.
- Dworkin, S. See Babkin, B. P., and Schachter, M.
- Dworski, M. See Kinghorn, H. M.
- Dwyer, F. P., and Nyholm, R. S., bivalent and tervalent rhodium. III. Compounds of rhodic halides with tertiary arsines. IV. Polynuclear complexes of rhodium and tin with tertiary arsines, II, 74, 177.
- Dyar, M. J. See Davidson, L. S. P.
- Dybeng, O., and Rasmussen, E. W., resorption of ethyl alcohol from stomach and intestine of rat, III, 833.
- Dyck, A. J. See Basterfield, S.
- Dyckerhoff, H., and Ruhl, G., antithrombin content of blood in anaphylaxis, III, 712.
- Dye, M. See Hawks, J. E.
- Dyer, C. G. See Looney, J. M.
- Dyke, S. C., Della Vida, B. L., and Delikat, E., vitamin-C deficiency in irresponsive pernicious anaemia, III, 301.
- See also Della Vida, B. L.
- Dynes, J. B., Adie's syndrome, III, 382.
- Dyniewicz, J. M. See Blatt, M. L.
- Dyson, M., and Plant, G., accuracy of serum-protein estimations and of diurnal variations in their level, III, 626.
- Dzbanovski, N. A. See Nametkin, S. S.
- Dziemian, A. J., permeability and lipin content of immature red cells, III, 786.
- E.
- Eadie, G. S., inhibition of choline-esterase by eserine and prostigmine, III, 272.
- Eagle, H., Doak, G. O., Hogan, R. B., and Steinman, H. G., amide-substituted phenylarsine oxides and their derivatives; utility in treatment of syphilis, III, 764.
- and Hogan, R. B., [mapharsen] intravenous drip and other intensive methods for treatment of early syphilis, III, 52.
- Eagle, W. W., bacterial allergy due to chronic infections in upper respiratory tract, III, 612.
- Eales, C. E. See Turner, A. W.
- Eanes, R. D. See Kilpatrick, M.
- Earl, D. See Barringer, B. S.
- Earle, D. P., jun., and Kendall, F. E., liver damage and urinary excretion of sulphate in rats fed *l*-cystine, *d*-methionine, and cysteic acid, III, 485.
- Smull, K., and Victor, J., effects of excess dietary cysteic acid, *d*-methionine, and taurine on rat liver, III, 495.
- and Victor, J., effects of diets on liver damage caused by excess cystine, III, 484.
- Earle, W. R., changes induced in a strain of fibroblasts from a strain C3H mouse by the action of methylcholanthrene, III, 748.
- East, B. R., vitamin-D and fluorine, III, 412.
- Eastcott, E. V. and Rae, J. J., factors in culture medium that affect phosphatase content of yeast, III, 203.
- Eastes, J. W., and Burgess, W. M., products obtained by reducing action of metals on salts in liquid ammonia solution. VIII. Reduction of complex cyanides, I, 67.
- Eaton, F. M., toxicity and accumulation of chloride and sulphate salts in plants, III, 291.
- Eaton, G. A., effect of addition of salts on hydrogen overvoltage, I, 203.
- Eaton, M. D., and Corey, M., complement-fixation in human pneumonitis with group-reactive virus antigens, III, 359.
- and Martin, W. P., serological reactions after vaccination and infection with influenza A virus, III, 287.
- Meiklejohn, G., Van Herick, W., and Talbot, J. C., infectious agent from cases of atypical pneumonia apparently transmissible to cotton rats, III, 610.
- See also Beck, M. D., and Bodily, H. L.
- Eaton, S. V., influence of sulphur deficiency on metabolism of sunflower, III, 72.
- Eaton, T. H., adaptive series of protractile jaws in Cichlid fishes, III, 782.
- Ebaugh, F. G., drastic shock therapies in treatment of psychoses, III, 638.
- See also Neuburger, K. T.
- Ebbecke, U mechanical and material properties of fibrin, I, 277. Coagulation of silicic acid gels compared with that of plasma, III, 680. Coagulation of fibrin as polymerisation-crystallisation process, III, 713.
- Ebbs, J. H., and Kelley, H., relation of maternal diet to breast feeding, III, 660.
- and Mulligan, F., incidence and mortality of breast- and artificially-fed infants admitted to hospital with infections, III, 660.
- Eberly, K. See Kharasch, M. S.
- Ebert, R. V., Stead, E. A., jun., Warren, J. V., and Watts, W. E., plasma-protein replacement after hemorrhage in dogs with or without shock, III, 7.
- See also Stead, E. A., jun.
- Ebin, J., solid carbon dioxide-ferric chloride technique for haemostasis: experimental study of its effectiveness in brain, viscera, and superior sagittal sinus, III, 458.
- Eccles, J. C., synaptic potentials and transmission in sympathetic ganglia, III, 639.
- Katz, B., and Kuffler, S. W., effect of eserine on neuromuscular transmission, III, 13.
- Eckardt, R. E., Stolzar, I. H., Adam, A. B., and Johnson, L. V., pigment of Kayser-Fleischer ring, III, 469.
- See also Conners, C. A.
- Eckart, F., and Schmidt, A., spectral sensitivity distribution of selenium barrier-layer cells, I, 2.
- Ecker, E. E. See San-Clemente, C. L.
- Ecker, H., absorption spectrum of reversible polymers of quinoline dyes, I, 308.
- Eckert, E., and Wulff, P., determination of water, I, 313.
- Eckert, H. W., micro-colorimetric determination of tryptophan, II, 248. Micro-determination of mercury in organic compounds, II, 286. Determination of *p*-aminobenzoic acid, and *p*-nitrobenzoic acid in blood, III, 716.
- Eckoldt, E. L., and Lucasse, W. W., liquid-liquid phase equilibria of the system cyclohexane-methyl alcohol in presence of salts as third components, I, 202. Lyotropic order and effects of sodium salts on miscibility of cyclohexane and methyl alcohol, I, 202.
- Eckman, M. See Johnson, A. E.
- Eckoldt, H. See Fischer, Hans.
- Eckstein, A. and Eckstein-Schlossmann, E., "free" breast feeding of infants, III, 820.
- Eckstein, D. See Lisa, J. R.
- Eckstein, R. W. See Gregg, D. E.
- Eckstein-Schlossmann, E. See Eckstein, A.
- Edeiken, J., extreme tachycardia; non-fatal paroxysms following myocardial infarction, III, 549.
- Edeikin, L. See Muschat, M.
- Edelman, M. H., and Reiner, M., pentosuria associated with diabetes mellitus, III, 894.
- Edelmann, A., Mahanna, D. L., Lewis, L. A., Thatcher, J. S., and Hartman, F. A., use of adrenal extract in fever therapy, III, 558.
- Edelston, B. G., anomalous pupil reactions, III, 104.
- Eden, A., photometric determination of potassium by a modified Jacobs-Hoffman method, I, 235.
- Eden, K. C., and Trotter, W. R., lid retraction in toxic diffuse goitre, III, 553.
- See also Trotter, W. R.
- Edens, C. O. See Johnson, T. B.
- Eder, H. See Belfer, S.
- Eder, R., and Lippert, C. von, accurate and sensitive clinical method of demonstrating blood in urine, faeces, and gastric juice, III, 856.
- Edgecombe, A. E., *Trichophyton purpureum* (Bang) and *T. gypseum* (Bodin), III, 521.
- Edgerton, L. J., use of metaphosphate in nutrient solutions, III, 613.
- Edgeworth-Johnstone, R., calculation of relative volatility, I, 254.
- Edgington, B. H., Robison, W. L., Burroughs, W., and Bethke, R. M., nicotinic acid for prevention of infectious swine enteritis, III, 666.
- Edinger, T. See Romer, A. S.
- Edlbacher, S., and Baur, H., fate of *l*- and *d*-histidine in guinea-pigs, III, 669.
- and Grauer, H., oxidative degradation of histidine in the animal body, III, 768.
- Edlen, B., position of $3p^5 1D$ term in O III, I, 1. $s^2 p^4 1S$ and $sp^5 1P$ in Si iso-electronic sequence, I, 77.
- and Swings, P., term analysis of third spectrum of iron (Fe III), I, 77.

- Edman, P., Euler, U. S. von, Jorpes, E., and Sjöstrand, O. T., preparation and properties of hypertensin (angiotonin), III, 92.
- Edridge-Green, F. W., physiology of colour vision, III, 386, 804.
- Edsall, J. T., and Sagall, E. L., Raman spectra of *l*-ascorbic acid, tetrone acid, and related compounds, I, 249.
- Edstrand, M. See Sillén, L. G.
- Edward, D. G. ff., Boundillon, R. B., and Lush, D., air-borne virus infections. II. Killing of virus aerosols by ultra-violet radiation, III, 609.
- Elford, W. J., and Laidlaw, P. P., air-borne virus infections. I. Experimental technique and preliminary observations on influenza and infectious ectromelia, III, 609.
- Edwards, A. B., chemical composition of leucoxene in Cainozoic bauxite from Boolarra, Victoria, I, 107. Differentiation of dolerites of Tasmania, I. and II, I, 169.
- Edwards, A. E., and Roseveare, W. E., second virial coefficients of gaseous mixtures, I, 121.
- Edwards, C. M., mercurial poisoning in horse from eating "treated" oats, III, 268.
- Edwards, G. A., Roughton, F. J. W., and Scholander, P. F., micro-gasometric estimation of blood gases. III. Nitrogen, III, 791.
- See also Irving, L., and Scholander, P. F.
- Edwards, H. R., tuberculosis in industry, III, 516.
- Edwards, J. C. See Findley, T.
- Edwards, J. E., and Dalton, A. J., induction of cirrhosis of liver and of hepatomas in mice with carbon tetrachloride, III, 181.
- Dalton, A. J., and Heston, W. E., induction of carbon tetrachloride hepatoma in strain *L* mice, III, 401.
- Dalton, A. J., White, J., and White, T. N., spontaneous fibrosarcoma of foreleg and paw in a *C3H* mouse, III, 250.
- See also Andervont, H. B., Dalton, A. J., Greenstein, J. P., Lippincott, S. W., and White, J.
- Edwards, J. G., the nephron as affected by mercury, III, 745.
- Edwards, J. L., anaerogenic strain of *Proteus*, III, 283.
- Edwards, O. F., reclamation of agar, III, 353.
- Edwards, O. S., and Lipson, H., X-ray study of transformation of cobalt, I, 196.
- See also Lipson, H.
- Edwards, P. R., and Bruner, D. W., occurrence and distribution of *Salmonella* types in the United States, III, 526.
- See also Bruner, D. W., and Cherry, W. B.
- Edwards, S. J. See Stableforth, A. W.
- Edwards, T. I., computing scales for calculating percentage deviation from average weight, I, 167.
- See also Sievers, R. F.
- Edwards, W. M., and Helming, O., severe allergy to green pea, III, 531.
- Egriwe, E., determination of quadrivalent tin, I, 264.
- Efimov, M. I., regeneration of forelimbs in axolotls, III, 155. Possibilities of recovery of regenerative territory of fore-limb in axolotl after removal, III, 367.
- Egan, (Miss) D. M., and Partington, J. R., activity coefficients of zinc chloride, bromide, and iodide from electromotive forces, I, 181.
- Egan, R. L. See Sachs, A.
- Engana, E. See Johnson, R. E.
- Engana Baraona, E., acetylcholine in brain and cerebrospinal fluid during rest and stimulation of optic nerve, III, 15. Biological tests on rectum of *Coliptocephalus gayi*, III, 51.
- Eggenberger, H., and Messerli, F. M., prophylaxis of endemic goitre in Switzerland, III, 321.
- Eggers, H. E. See Lauridsen, J.
- Eggerth, A. H. production of histamine in bacterial cultures, III, 206.
- Littwin, R. J. and Deutsch, J. V., determination of amine in bacterial cultures, III, 207.
- Eggleston, L. V. See Krebs, H. A.
- Eggleton, M. G., Richardson, K. C., Schild, H. O., and Winton, F. R., renal impairment from limb crushing in anaesthetised dogs, III, 398. Renal damage due to crush injury and ischaemia of limbs of anaesthetised dog, III, 656.
- Egli, R. See Ruzicka, L.
- Egloff, B., and Kuder, R. C., simplifications in statistical analysis of physical chemical data, I, 87.
- Egloff, G., and Kuder, R. C., physical properties of alicyclic hydrocarbons. II. B.p. of monocyclic hydrocarbons, I, 86.
- Ehrenberg, A. See Schweizer, M.
- Ehrenberg, J. See Brederock, H.
- Ehrenberg, W., entropy and irreversible processes, I, 229.
- and Ansbacher, F., vacuum furnace, I, 317.
- Ehrenhaft, F., and Banet, L., magnetic ion, I, 117.
- Ehrenstein, M., steroids. VII. Compounds related to 6-methyl-11-deoxycorticosterone, II, 199. Antimalarials, III, 265.
- Ehret, W., and Greenstone, A., red zinc oxide, I, 207.
- and Gurinsky, D. H., thermal diagram of the system iron-tin, I, 255.
- Ehrhard, P. S., and Decherd, G. M., jun., mercury vacuum release for ultrafiltration and other evacuated systems, III, 76.
- Ehrich, W. E., simultaneous renal and hepatic excretion of water, cyanol, and azofuchsin I in rabbits, III, 486.
- Bondi, A., jun., Mudd, S., and Flosdorf, E. W., tolerance of rabbits to agglutinogen and toxins of *Hæmophilus pertussis*, III, 283.
- and Harris, T. N., formation of antibodies in popliteal lymph nodes in rabbits, III, 373.
- Ehrlich, G. See Bender, M. B.
- Ehrlich, P., magnetochemical studies. XLII. Magnetism of hydrogen halides, I, 85.
- Ehrlich, S. B. See Bruger, M.
- Eich, H. See Freudenberg, K.
- Eichbaum, F., fixation of complement in tropical dermatosis, III, 777.
- and Rocha e Silva, M., ascorbic acid and histamine content of rabbit's blood during anaphylactic shock, III, 778.
- Eichelberger, L., distribution of water and electrolytes between blood and skeletal muscle in experimental hypertension, III, 380.
- See also Childs, A., and Leiter, L.
- Eichholz, F., chemotherapy of intestinal worms, III, 137.
- Eichhorn, F. See Rappaport, F.
- Eichna, L. W., capillary blood pressure in man; direct measurements in digits during arterial hypertension induced by paredrinol sulphate, III, 230.
- and Bordley, J., capillary blood pressure in man; direct measurements in digits of normal and hypertensive subjects during vasoconstriction and vasodilatation variously induced, III, 230.
- Taube, Harry, and DeGraff, A. C., serial determination of cardiac output (ballistocardiogram) and electrocardiogram in normal men after intravenous administration of purified cardiac glucosides, III, 833.
- and Wilkins, R. W., capillary blood pressure in man; direct measurements in digits during induced vasoconstriction, III, 230.
- Eichorn, K. B. See Chaikoff, I. L.
- Eidelsberg, J., Bruger, M., and Lipkin, M., metabolic effects of testosterone implants, III, 122.
- Eil, M. See Oshlag, J. A.
- Eiler, M. L. See Hac, L. R.
- Eisele, H. E., juvenile diabetes surviving for 20 years, III, 580.
- Eisen, M. J., constancy under varying conditions of transplanted mammary carcinoma in inbred rats, III, 127. Initiation of secretory changes in transplanted mammary adenocarcinoma of rat by pituitary lactogenic hormone, III, 324. Occurrence of benign and malignant mammary lesions in rats treated with crystalline oestrogen, III, 331.
- Eisenberg, G. M., colorimetric determination of hydrogen peroxide, I, 234.
- Eisenberg, H. See Clinton, M., jun.
- Eisenberg, W. V. See Keenan, G. L.
- Eisenhart, C., and Wilson, P. W., statistical methods and control in bacteriology, III, 917.
- Eisenlohr, W. See Krabbe, W.
- Eisenstadt, W. S., hypersensitivity to thiamin, III, 611.
- Eisenstein, A., structure of liquid carbon tetrachloride, I, 194.
- and Gingrich, N. S., diffraction of X-rays by argon in liquid, vapour, and critical regions, I, 7.
- Eisfelder, H. W., clinical evaluation of cestrone, estradiol benzoate, and diethylstilboestrol, III, 241.
- Eisin, W. M. See Freed, S. C.
- Eistert, B., constitution and formulation of dimeric compounds of group III elements, I, 52. Effect of acidifying substituents on chromophoric systems, I, 296.
- See also Arndt, F.
- Eiter, K. See Spath, E.
- Ekeley, J. B. See Waugh, R. C.
- Eklund, C. M. See Reimann, H. A.
- Eklund, G. See Adler, Erich.
- Eckstein, H., connexion between kinematic and dynamical theories of X-ray diffraction, I, 7.
- Ekwall, P., constitution of dilute soap solutions. III. Theory of hydrolysis, I, 306.
- El Agouni, M. M., and Cameron, S. H., adventitious buds in citrus, III, 537.
- Elam, D. W. See Lundgren, H. P.
- Elam, J., trichloroethylene anaesthesia, III, 344.
- Elbe, G. von. See Lewis, B.
- Elberg, S. S., and Meyer, K. F., nutritional requirements of *Clostridium parabutulinum*, type A, III, 210. Extracellular proteolytic system of *Clostridium parabutulinum*, III, 210.
- Elden, C. A., monoethyl ether of stilboestrol and menopausal syndrome, III, 117.
- Elder, J. H., effectiveness of vitamin-A in treatment of defective colour vision, III, 804.
- Elder, W. H., and Finerty, J. C., gonadotropic activity of pituitary gland in relation to seasonal sexual cycle of cottontail rabbit (*Sylvilagus floridanus mearnsi*), III, 393.
- Elderfield, R. C. See Blout, E. R., Chen, K. K., Hawkins, W. L., Leonard, N. J., Marshall, E. R., Stempel, A., and Uhle, F. C.
- Eldering, G., antigenic properties of *Hæmophilus pertussis* and related organisms. II. Protection tests in mice, III, 283.
- Elek, S. R., and Katz, L. N., papaverine in heart disease, III, 588.
- See also Solarz, S. D.
- Eley, D. D., unimolecular reactions, I, 203. Kinetics of haemoglobin reactions, I, 204.
- Elford, W. J. See Edward, D. G. ff.
- Elftman, A. G., afferent and parasympathetic innervation of lungs and trachea of dog, III, 384.
- Elgabaly, M. M., and Jenny, H., cation and anion interchange with zinc montmorillonite clays, I, 275.
- El-Gammal, Y. See Attiah, M. A. H.
- Elgart, S. See Mirsky, I. A., and Nelson, N.
- Elghammer, H. W. See Greengard, H.
- Eliashevitsch, M., and Stepanov, B., interpretation of vibrational spectra of propane and butane, I, 49.
- Elijah, H. D., and Turner, C. W., weight and thyrotropic hormone content of anterior pituitary of swine, III, 885.
- Elkin, C. A. See Pijoan, M.
- Elkington, J. St. C. See Carleton, A.
- Elkins, H. B., maximum allowable concentrations. I. Carbon tetrachloride, III, 837.
- Storazzi, E. D., and Hammond, J. W., determination of atmospheric contaminants. II. Methylcellosolve, III, 837.
- Elkinton, J. R., and Taffel, M., prolonged water deprivation in dog, III, 262.
- El-Korahsy, B., blue sclerotics, III, 469.

- Elks, J., and Hey, D. H.**, β -3:4-methylene-dioxyphenylisopropylamine, II, 89.
Hey, D. H., Haworth, J. W., and Pritchett, C. W., union of aryl nuclei. VI. Reactions with 1-aryl-3:3-dimethyltriazens, II, 362.
Ellenberg, M., and Mayer, G. G., effect of tocopherol on creatinuria, III, 579.
and Pollack, H., pseudoariboflavonosis, III, 409.
See also **Pollack, H.**
- Ellinger, F.**, recovery from radiation effects, III, 914.
- Ellingson, R. C.** See **Corwin, A. H.**
- Elliot, A. H.** See **Gray, P. A.**
- Elliot, J. F.** See **Jones, J. I. M.**
- Elliott, H. C.**, motor cells of spinal cord; distribution in normal human foetal cord, III, 381.
See also **Palmer, H. D.**
- Elliott, L. G., and Deutsch, M.**, nuclear energy levels in ^{56}Fe from decay of ^{56}Mn and ^{56}Co , I, 190.
Deutsch, M., and Roberts, A., disintegration scheme of ^{24}Na , I, 247.
- Elliott, R. F.** See **French, C. E.**
- Ellis, C. H., Thienes, C. H., and Wiersma, C. A. G.**, drug actions on crustacean nerve and muscle, III, 872.
See also **Wiersma, C. A. G.**
- Ellis, D. M.** See **Osgood, E. E.**
- Ellis, F. A., and Robinson, H. M.**, cutaneous sensitivity to merthiolate and other mercurial compounds, III, 196.
- Ellis, F. W., Carr, C. J., Wiegand, E. J., and Krantz, J. C., jun.**, effect of sorbitol feeding on successive generations of rats, III, 821.
- Ellis, George H.** See **Parks, R. Q.**
- Ellis, Gordon H., and Hamner, K. C.**, carotene content of tomatoes as influenced by various factors, III, 700.
- Ellis, L. B.** See **Williams, C.**
- Ellis, L. N., Zmachinsky, A., and Sherman, H. C.**, significance of liberal levels of intake of riboflavin, III, 409.
- Ellis, N. R.** See **Cabell, C. A.**
- Ellis, P. M., Smith, M. T., Bonebrake, H. E., and Hunter, L. B.**, silicosis survey [in Cœur d'Alene mining district of Idaho], III, 594.
- Ellis, R. V.** See **Rosendahl, C. O.**
- Ellis, W. G.**, water and electrolyte exchange in polychaetes, III, 181.
and **Jones, J. W.**, osmotic pressure and salmon sperm, III, 155.
- Elman, R.**, acute hypoproteinæmia in surgical shock, III, 626. Oral use of amino-acids of hydrolysed casein (Amigen) in surgical patients, III, 751.
- Cox, W. M., jun., Lischer, C. E., and Mueller, A. J.**, mortality in severe experimental burns as affected by environmental temperature, III, 487.
and **Davey, H. W.**, hypoalbuminæmia produced by protein-deficient diets; correction in dogs by large plasma transfusions, III, 374.
- Horvitz, A., Sachar, L. A., and Wolf, H.**, experimental production of hypoalbuminæmia by fasting, III, 87.
and **Large, A. M.**, contributions to knowledge of pancreas in 1941, III, 125.
- See also **Brown, F. A., jun., and Horvitz, A.**
- Elmes, P. C., and Jefferson, A. A.**, adrenaline secretion during anaesthesia, III, 109. Effect of pholedrine and neosynephrine on blood pressure, III, 420.
- Elmore, W. C.**, magnetic structure of iron crystals, I, 83.
- Elöd, E., and Schmitt, G.**, swelling of cellulose hydrates in the presence of protein substances, I, 307.
- Elrod, R. P.**, *Erwinia*-coliform relationship, III, 279.
and **Braun, A. C.**, *Pseudomonas aeruginosa*; its rôle as plant pathogen, III, 445.
- Elsberg, C. A., and Spotnitz, H.**, quantitative olfactory tests for localisation of supratentorial disease, III, 21.
- El Shamy, H. K.** See **Tourky, A. R.**
- El-Sherbini, M. A., and Yousef, Y. L.**, compensated hot-wire air thermometer, I, 318.
- Elson, K. A., Chornock, F. W., and Dickey, F. G.**, intubation of human small intestine; determining digestive activity in gastrointestinal tract, with measurements of protein digestion in stomach and small intestine, III, 245.
and **Ingelfinger, F. J.**, eosinophilia and pneumonitis in chronic brucellosis, III, 210.
- Elson, L. A.**, inhibition of urease activity by ascorbic acid, III, 769.
- Elvehjem, C. A.**, water-soluble vitamins, III, 664. New members of the B complex; their nutritional significance, III, 666. Biological significance of nicotinic acid, III, 901.
See also **Axelrod, A. E., Briggs, G. M., jun., Cooperman, J. M., Field, J. B., Hegsted, D. M., Henderson, L. M., Krehl, W. A., Nielsen, E., Orsini, D., Pilgrim, F. J., Potter, R. L., Schaefer, A. E., Sober, H. A., Swingle, K. F., Teply, L. J., Teresi, J. D., Wagner, J. R., Waisman, H. A., and Wegner, M. I.**
- Elvey, C. T.**, light of the night sky, I, 189.
- Elvy, R. E.**, electrolytic preparation of quinhydrone, II, 234. Respiration rate of dairy bull spermatozoa, III, 480.
- Emanuel, N. M.**, kinetic effect, I, 64.
- Embree, N. D., and Shantz, E. M.**, possible new member of vitamin-A₁ and -A₂ group, II, 261. Kitol, a new provitamin-A, II, 262.
See also **Jensen, J. L., and Shantz, E. M.**
- Emde, H.** See **Micheel, F.**
- Emersen, P. W., and Green, H.**, transposition of great cardiac vessels, III, 154.
- Emerson, B.** See **Burdick, H. O.**
- Emerson, George A.**, pharmacological effects of choline ester of chaulmoogric acid, III, 347. and **Emerson, M. J.**, effect of adrenaline on bioluminescence of firefly, III, 645.
and **Van Liere, E. J.**, drug prophylaxis against lethal effects of severe anoxia, III, 633.
See also **Finnegan, J. K., and Van Liere, E. J.**
- Emerson, Gladys A., and Keresztesy, J. C.**, biotin deficiency in rat, III, 501.
- Emerson, H. S.**, embryonic grafts in regenerating tissue. I. Late gastrula ectoderm of *Rana pipiens* with and without chordamesoderm, III, 783.
- Emerson, K., jun., and Dole, V. P.**, diodrast and inulin clearances in nephrotic children with supernormal urea clearances, III, 745.
and **Van Slyke, D. D.**, [intravenous amino-acids in treatment of] nephrotic crisis, III, 566.
- Emerson, M. J.** See **Emerson, George A.**
- Emerson, P.** See **Gross, R. E.**
- Emery, E. S., jun.**, observations on patient with ileostomy bearing on diagnosis of "irritable colon," III, 124.
- Zollinger, R., and Rutherford, R. B.**, effect of predigested food on experimental peptic ulcer, III, 395.
See also **Zollinger, R.**
- Emery, F. E.**, kidney plethysmograph, III, 248. Comparative action of stilboestrol and oestrone on body growth and weight and gonadotropin content of hypophysis, III, 889.
and **Loomis, T. A.**, obtaining records of tortoise sinus with data on extrasystoles and length of cycles following stimulation, III, 717.
- Matthews, C. S., and Tabrah, F. L.**, circulatory effects of diethylstilboestrol in cats and rats and its intestinal absorption, III, 562.
See also **Matthews, C. S.**
- Emery, K. O.** See **Dietz, R. S.**
- Emge, L. A.**, significance of oestrogenic hormones in carcinogenesis, III, 241.
- Emmart, E. W., and Smith, M. I.**, attenuating effect of promin on virulence of tubercle bacillus, III, 527.
- Emmel, M. W., Sanders, D. A., and Swanson, L. E.**, toxicity of foliage of *Aleurites fordii* for cattle, III, 679.
- Emmens, C. W.**, oestrogens and pro-oestrogens related to stilbene and triphenylethylene, III, 29. Differentiation of oestrogens from pro-oestrogens by use of spayed mice with two separate vaginal sacs, III, 31. Urinary excretion of oestrogens following injection of pro-oestrogens in guinea-pig, III, 888.
- Macintosh, F. C., and Richter, D.**, oestrogens and acetylcholine, III, 649.
- Emmens, T. H.** See **Crutchfield, L. R.**
- Emmert, B., and Pirot, E.**, synthesis of 2-pyridyl- and 2-quinolyl-dialkylcarbinols, II, 384.
- Emmert, E. M.**, partial elimination of experimental error from data by use of significance tests, III, 699.
- and **Waltman, C. S.**, determining carbon in plant extracts, III, 616.
- Emmert, P. H., and Kummer, J. T.**, kinetics of ammonia synthesis, I, 232.
- Emmett, A. D., Hartzler, E. R., and Brown, R. A.**, effect of sodium diphenylhydantoinate (dilantin sodium) on utilisation of ascorbic acid by guinea-pigs, III, 825.
See also **Brown, R. A., and Ewing, D. T.**
- Emmett, P. H., and DeWitt, T. W.**, low-temperature adsorption of nitrogen, oxygen, argon, hydrogen, n-butane, and carbon dioxide on porous glass and partly dehydrated chabasite, I, 275.
and **Skau, N.**, catalytic hydrogenation of benzene over metal catalysts, I, 260.
- Emmons, C. W.** See **Ashburn, L. L.**
- Emmons, R. C., and Gates, R. M.**, plagioclase twinning, I, 291.
- Emmrich, R., and Emmrich-Glaser, I.**, metabolism of higher saturated dicarboxylic acids having even numbers of carbon atoms, III, 46.
and **Nebe, E.**, metabolism of natural coconut oil and of fat prepared from the oil containing fatty acids with odd numbers of carbon atoms, III, 46.
- Emmrich-Glaser, I.** See **Emmrich, R.**
- Emsweller, S. E., and Brierley, P.**, tetraploid lily, III, 778.
- End, E., and Long, C. W.**, oxygen under pressure in carbon monoxide poisoning; effect on dogs and guinea-pigs, III, 912.
- Ende, M. van den, Harries, E. H. R., Stuart-Harris, C. H., Steigman, A. J., and Cruickshank, R.**, laboratory infection with murine typhus, III, 777.
and **Lush, D.**, pneumotropic strain of lymphogranuloma venereum virus, III, 441.
See also **Andrewes, C. H.**
- Endell, K., and Hellbrügge, J.**, effect of ionic radius and cation valency on electrical conductivity of silicate melts, I, 196.
- Enders, R. K., and Pearson, O. P.**, blastocyst of *Martes pennanti*, III, 618.
See also **Marshall, W. H., and Pearson, O. P.**
- Endicott, C. L., Mitchell, J. H., and Qvist, G.**, death after dental extraction in haemophiliac, III, 372.
- Endicott, E. N.** See **Williams, H. H.**
- Endicott, K. M.** See **Ashburn, L. L.**
- Endres, G., and Rohr, E.**, bactericidal action. I. Disinfecting power of alcohols in non-aqueous solvents, III, 354.
- Engel, F. L., Mencher, W. H., and Engel, G. L.**, "adrenaline shock" as manifestation of phaeochromocytoma of adrenal medulla, III, 389.
- Winton, M. G., and Long, C. N. H.**, biochemical studies on shock; metabolism of amino-acids and carbohydrate during haemorrhagic shock in rats, III, 791.
See also **Tepperman, J.**
- Engel, G. L., and Margolin, S.**, electroencephalogram in anoxia and disturbances of carbohydrate metabolism, III, 14.
See also **Engel, F. L.**

- Engel, M. See Gsell, O., and Kovacs, E.
- Engel, M. G. See Abramson, H. A.
- Engel, R. See Light, G.
- Engel, R. W., relation of B-vitamins and dietary fat to lipotropic action of choline, III, 407. Choline content of animal and plant products, III, 574.
- Engel, S., influence of constricted pupil on field [of vision] in glaucoma, III, 104.
- Engelberg, H. See Gunther, L., and Nathanson, M. H.
- Engelhardt, H. T. See Derbes, V. J.
- Engelhardt, W. von, structures of thuringite, bavelite, and chamosite, and their place in chlorite group, I, 44.
- Engelhardt, W. A., enzymic and mechanical properties of muscle-proteins, III, 307.
- Engle, D. E., and Evanson, C. O., effect of potassium thiocyanate on occurrence of migraine, III, 424.
- Engle, J. B. See Loosanoff, V. L.
- Engledow, R. See Killingsworth, W. P.
- Englis, D. T., and Becker, H. C., sugar analysis by alkaline ferricyanide method; determination of ferrocyanide by iodometric and other procedures, II, 248.
- English, J., jun., and Cavagliari, G., synthesis and rearrangement of deca- and tetrahydronaphthalene diols, II, 299.
- English, J. P., Chappell, D., Bell, P. H., and Roblin, R. O., jun., substituted sulphonamides, II, 74.
- and Willius, F. A., haemorrhagic lesions of coronary arteries, III, 718.
- Ennor, A. H., iodine numbers of liver-lipins in experimental liver damage, III, 179.
- Ensor, C. See Shuler, R. H.
- Ensslin, F., indium salts. II. Indium iodate, I, 123.
- Ensworth, H. K., Kalkstein, M., Barefoot, S. W., Liebmann, J., and Flummer, N., sulphadiazine in pneumonia, III, 49.
- Enterman, C. See Chaikoff, I. L., Kaplan, A., Stillman, N., and Zilversmit, D. B.
- Entknop, J. See Baker, F.
- Enzer, N., Simonson, E., and Blankstein, S. S., fatigue of patients with circulatory insufficiency, investigated by means of fusion frequency of flicker, III, 167.
- See also Simonson, E.
- Epler, H. See Pfeiffer, P.
- Eppinger, H. O. See Wacek, A. von.
- Eppling, F. J. See Burris, R. H.
- Epprech, A. G., chemical war materials. XIV. Spectrophotometric determination of war materials, I, 161.
- Eppstein, S. H., and Morgulis, S. M., onset and cure of nutritional muscular dystrophy, III, 258.
- Epstein, E. See Ringk, W. F.
- Epstein, S., prurigo aestivalis, eczema solare, and urticaria photogenica, III, 199. Silk sensitivity to light in prurigo aestivalis, eczema solare, and urticaria photogenica, III, 767.
- Epstein, Samuel. See Campbell, A. N.
- Erb, I. H. See Snelling, C. E.
- Erber, W., solution of silver halides in aqueous halogen acids as an example of influence of surface equilibria on rate of heterogeneous diffusion, I, 124. Complex compounds. II. Solubility of silver bromide in aqueous hydrobromic acid. III. Solubility of silver iodide in aqueous hydriodic acid, I, 255.
- Erbring, H., and Broese, S., vibration-viscosimetric measurements on concentrated suspensions, I, 152.
- Ercoli, N., chemotherapeutic agent with osteotropic properties, III, 678.
- Erdman, L. W., identification scheme for numbering cultures of *Rhizobium*, III, 278.
- Erdos, T., action of polyphenol oxidase in the animal body, III, 840.
- Erdos, J., chemical composition of [anti-pernicious anaemia] liver fractions, III, 83.
- Erdtman, H. See Aulin-Erdtman, G.
- Eremin, E. N. See Kobosev, N. I.
- Erenyi, E. See Buzagh, A. von.
- Erf, L. A., and Friedlander, G., phosphorus exchange in tissues of patients with lymphoid leukaemia, III, 580.
- See also Osgood, E. E., and Rosenthal, N.
- Ergeanian, J. A., and Doval, J. H., fatal anuria following administration of sulphonamides with reference to tubular necrosis and regeneration, III, 673.
- Erichsen, A. I. See Kerr, P. F.
- Erickson, F. J., and Fabian, F. W., preserving and germicidal action of sugars and organic acids on yeasts and bacteria, III, 277.
- Erickson, J. O. See Martin, D. S., and Putnam, F. W.
- Erlenmeyer, H., and Furger, H. P., isosteric and structurally similar compounds. XVII. Derivatives of pyrimidinothiazole, II, 210.
- Ermolin, G. M. See Gerling, E. K.
- Ernst, O., bacterial content of industrial lubricating and cooling oils, III, 847.
- Ernstene, A. C., diagnosis and treatment of cardiac emergencies, III, 89.
- See also Proudfit, W. L.
- Errington, B. J., Hodgkiss, W. S., and Jayne, E. P., ascorbic acid in body fluids of horses, III, 130.
- Erschler, B. V., passivity of platinum, I, 309. Electrochemical mechanism of passivation of platinum, I, 309.
- Ershoff, B. H., dermatitis on synthetic ration adequate for growth and reproduction in rat, III, 756.
- Ervin, D. M. See Syverton, J. T.
- Erxleben, H., and Herken, H., chemistry of tumours. VIII. Stereochemical analysis of proteins from lymphogranuloma and other pathological tissues, III, 750.
- See also Herken, H., and Kogl, F.
- Escamilla, R. F., and Lisser, H., Simmonds' disease; clinical study with review of literature; differentiation from anorexia nervosa by analysis of 595 cases, III, 112.
- See also Lisser, H.
- Eschmazi, H. E., and Bergmann, F., Friedel-Crafts reactions of 9-phenyldodecaphenanthrene-10-carboxylic acid, II, 328.
- See also Bergmann, F.
- Eschweiler, P. C., dangers of indiscriminate coverage of parenterally administered glucose with insulin, III, 323.
- Escudero, L. See Adams, W. E.
- Escudero, P. A., nutrition in Latin America, III, 494.
- Escoe, R. B. See Zechmeister, L.
- Esling, R. H. See Clark, J. C.
- Eslinger, C. O. See Pijoan, M.
- Essel, W. B., jun., and Fuller, J. E., oxidation of ascorbic acid as influenced by intestinal bacteria, III, 208.
- See also Dunker, C. F.
- Essenberg, J. M., and Svejda, A. J., effect of destruction of germinal crescent on origin of germ cells and development of gonads in domestic fowl, III, 366.
- Esser, M., technique of blood transfusion and intravenous drip transfusion in babies and small infants, III, 863.
- Essex, H. E. See Levinson, J. P., and Wakim, K. G.
- Essin, O., cathodic polarisation of zinc, I, 63. and Kosheurov, V., proton transfer during electrolytic discharge of hydrogen ions, I, 95.
- Estabrook, G. B., effect of high electrostatic fields on vaporisation of molybdenum, I,
- Este, C. R. See Eversole, W. G.
- Estel, E., viscosity of ethylene glycol, I, 254.
- Esturonae, D. See Bueding, E.
- Etherington-Wilson, W., specific gravity of cerebrospinal fluid, III, 874.
- Etkin, W., developmental control of pars intermedia of hypophysis by brain, III,
- Etsten, B., Alexander, F. A. D., and Himwich, H. E., comparative toxicity of pentobarbital in newborn and adult rat, III, 676.
- Ettinger, G. H., and Jeffs, D., effects in dog of infusion of adrenal cortical extract on exercise tolerance, blood constituents, and adrenal cortex, III, 807.
- Eucken, A., melting processes, I, 9.
- and Krome, H., development of thermal conductivity methods for measuring molecular heats of dilute gases by simultaneous determination of accommodation coefficients, I, 149.
- Euler, B. von, Euler, H. von, and Saberg, I., effect of fats and fat-soluble substances on growth of rats. I. and II., III, 405, 496.
- See also Euler, H. von.
- Euler, C. von, and Euler, H. von, development of Jensen sarcoma and simultaneous change in pyruvic acid content of blood, III, 570.
- Euler, H., observations of showers in air and nuclear fissions with cosmic rays in the ionisation chamber, I, 215.
- Euler, H. von, Adler, Erich, and Caspersson, A. O., methylenequinones; oxido-reductive demerisation, II, 373.
- Adler, Erich, and Cedwall, J. O., phenol-formaldehyde resins. VIII. Hardening of resols; formation of dibenzyl ethers, II, 188. Reaction of phenols with acetylene, II, 261.
- Adler, Erich, Cedwall, J. O., and Torgren, O., phenol-formaldehyde resins. XV. Hardening of resols; reaction sequence in hardening of o- and p-phenolalcohols, II, 189.
- Adler, Erich, and Gie, G., phenol-formaldehyde resins. II. Condensation of dihydroxybenzenes with formaldehyde, II, 188.
- Adler, Erich, and Tingstam, S., phenol-formaldehyde resins. XIII. Hardening of resols; reaction phases of hardening of dinuclear dialcohols, II, 189.
- Ahlstrom, L., and Hasselquist, H., vitamin B group, II, 206.
- Ahlstrom, L., and Hogberg, B., action of X-rays on yeast and yeast constituents, III, 838.
- Euler, B. von, and Saberg, I., vitamin-B group, I, III, 498.
- and Hogberg, B., enzymic processes in yeast. I. Reactions of pyruvic acid, III, 428. Pyruvic acid in yeast, blood, and spleen, III, 505.
- Hogberg, B., and Saberg, I., pyruvic acid content of blood of cancerous animals during growth and retrogression of experimental tumours, III, 87.
- and Kispeczy, S. von, condensation of 1,4-dihydroxy-2-methylnaphthalene with formaldehyde and xylenol alcohol, II, 70.
- and Nyström, H., amine-formaldehyde condensation in formation of aniline-formaldehyde resins and of aminoplastics. I, II, 159.
- See also Adler, Erich, Euler, B. von, Euler, C. von, Hevesy, G. von, Hogberg, B., Schlenk, F., and Skarzynski, B.
- Euler, U. S. von, and Sjöstrand, T., pressor substances in urine and plasma from normal and hypertensive subjects, III, 306.
- See also Edman, P.
- Eurich, F. W., non-fatal exhaust-fume poisoning, III, 516.
- Eusterman, G. B., Kirklin B. R., and Morlock, C. G., non-functioning gastro-enteric stoma; diagnostic study of 62 surgically demonstrated cases, III, 177.
- See also Smith, L. A.
- Evans, A. C., haemolytic streptococci. VI. Epidemic group, III, 213. Determination of sensitivity of a strain of streptococcus to bacteriophage of type A, B, C, or D, III, 438.
- and Sockrider, E. M., another serologic type of streptococcal bacteriophage, III, 438.
- Evans, A. G., incidence of pulmonary tuberculosis of adult type in the R.A.F., III, 608.
- Evans, B. S., conversion of iron into ferrocyanide; precipitation of vanadium ferrocyanide, I, 42. Separation of nickel and cobalt from iron and of nickel from cobalt, I, 164.

- Evans, C. A. See Green, R. G., and Sealock, R. R.
 Evans, C. W., silicosis in chert-miner, III, 516.
 Evans, D. G., protective properties of alpha antitoxin and theta antihaemolysin occurring in *Cl. welchii* type A antiserum, III, 920.
 Effects produced by extracts of *H. pertussis* on blood-sugar of rabbits, III, 921.
 Evans, D. S. See Brown, G. M.
 Evans, E. A., jun., Vennesland, B., and Slotin, L., carbon dioxide fixation in cell-free extracts of pigeon liver, III, 503.
 Evans, E. F. See Wolfson, M. L.
 Evans, E. J. See Powell, H.
 Evans, F. C., Douglas, J. R., and Wheeler, C. M., sylvatic plague virus. III.
 Epizootic of plague among ground squirrels (*Citellus beecheyi*) in Kern County, California, III, 524.
 and Holdenried, R., field study of ground squirrel (*Citellus beecheyi*) in relation to sylvatic plague, III, 606.
 Evans, F. R. See Curran, H. R.
 Evans, G. See Allee, W. C.
 Evans, Griffith, trophic necrosis, skin-grafting, and vitamin-C, III, 754.
 Evans, G. E. See Glockler, G.
 Evans, G. T. See Samuels, L. T.
 Evans, H., and Perry, K. M. A., immediate death following intravenous mercurial diuretics, III, 912.
 Evans, H. M., beginning of function in thyroid of foetal rat, III, 556.
 Simpson, M. E., Marx, W., and Kibrick, E. A., bioassay of pituitary growth hormone; width of proximal epiphyseal cartilage of tibia in hypophysectomised rats, III, 560.
 See also Fraenkel-Conrat, H., Fraenkel-Conrat, J., Gorbman, A., Kibrick, E. A., Li, C. H., Lyons, W. R., Marx, W., Simpson, M. E., and Troescher-Elam, E.
 Evans, J. S., and Hauschmidt, J. D., influence of enzymes on activity of gonadotropin of pregnant mare serum, III, 119.
 Evans, N., mesotheliomas of uterine and tubal serosa and tunica vaginalis testis, III, 659.
 Evans, R. C., and Henry, N. F. M., van der Kolk method of determining refractive indices, I, 101.
 Evans, R. D., and Goodman, C., radioactivity of rocks, I, 322.
 See also Goodman, C., Hemeon, W. C. L., Reiner, L., and Williams, C. R.
 Evans, R. J. See Rhian, M., and Stross, F. H.
 Evans, R. W. See Smith, F.
 Evans, T. C., Levin, A. V., and Sulkin, N. M., inhibition of embryo formation in nematodes by Roentgen radiation, III, 679.
 Slaughter, J. C., Little, E. P., and Failla, G., influence of medium on radiation injury of [*Arbacia*] sperm, III, 595.
 Evans, T. H., Levi, I., Hawkins, W. L., and Hibbert, H., reactions relating to carbohydrates and polysaccharides. LXVII. Synthesis of methylated glucose derivatives, II, 56.
 See also West, E.
 Evans, T. S., monocytic leukaemia, III, 572.
 Evans, T. W. See Vaughan, W. E.
 Evans, U. R., laws governing growth of films on metals, I, 259.
 Evans, V. J. See Sullivan, M.
 Evans, W., mitral systolic murmurs, III, 377.
 Evans, Winston, elliptical erythrocytes, III, 786.
 See also Leedham-Green, J. C.
 Evans, W. A., jun., encephalographic ratio for estimating size of cerebral ventricles, III, 383.
 Evans, W. E., jun., Wollenweber, H., Ruppertsberger, M., and Krantz, J. C., jun., fate of mannide mono-oleate in animal body, III, 347.
 See also Krantz, J. C., jun.
 Evans, W. F. See Stewart, H. J.
 Evans, W. L. See MacDonald, N. S., and Talley, E. A.
 Evans, W. V., and Pearson, R., ionic nature of Grignard reagent, II, 178.
 See also Pearson, R.
- Evanson, C. O. See Engle, D. E.
 Eve, F. C., resuscitation of drowned, III, 550.
 Everdell, M. H. See Birumshaw, L. L.
 Everett, J. W., relationship of progesterone to ovulation and luteinisation in persistent oestrous rat, III, 739.
 Everett, N. B., origin and differentiation of definite germ cells in mice, III, 706.
 Everhart, M. W. See Bradish, R. F.
 Everitt, E. L. See Milone, H. S.
 Eversole, W. G., and Boardman, W. W., determination of electrokinetic potential in flow of a semiconducting liquid through a single capillary, I, 90.
 and Estee, C. R., relation between ζ -potential and electrical capacity of the double layer, I, 128. Electrical capacity of the double layer, I, 180.
 and Hanson, A. J., activity coefficient of potassium iodide in sulphur dioxide from vapour pressure measurements, I, 181.
 and Thomas, F. S., effect of gelatin on solubility of thallous salts at 40°, I, 302.
 Eversole, W. J., and D'Angelo, S. A., effect of pregnenolone on sexual development of *Rana pipiens*, III, 741.
 and Gaunt, R., administering deoxycorticosterone and its inactivation by liver, III, 558.
 See also Gaunt, R.
 Evetzki, G. N., and Degtiarev, I. L., improved Kipp apparatus, I, 321.
 Evtropeev, K. S. See Konovalov, A. S., Pospelov, B. A., and Skorniakov, M. M.
 Ewald, H. See Hahn, O., and Mattauch, J.
 Ewart, R. H. See Roe, C. P.
 Ewell, A. W., production, concentration, and decomposition of ozone by ultraviolet lamps, I, 159.
 Ewer, R. F., function of *Chironomus haemoglobin*, III, 551.
 Ewing, A. W. G., deaf mutism: childhood and adolescence, III, 805.
 Ewing, D. T., Kingsley, G. V., Brown, R. A., and Emmett, A. D., physical chemical method for determination of vitamins-D in fish-liver oils, III, 668.
 Tomkins, F. S., and Kamm, O., ultra-violet absorption of, and effect of light on, vitamin-K₁, III, 336.
 Ewing, F. See Rigdon, R. H.
 Ewing, I. R., deafness in infancy and early childhood, III, 805.
 Ewing, M. E., Cullimore, O. S., and Blatherwick, N. R., plasma clotting time and serum-calcium of patients recovered from attacks of coronary thrombosis, III, 546.
 Eyring, H., Hulbert, H. M., and Harman, R. A., organic reactions, I, 258.
 and Magee, J. L., application of theory of absolute reaction rates to bacterial luminescence, III, 847.
 See also Powell, R. E.
 Eyster, H. C., enzyme action, III, 273.
 Ezell, B. D., and Gerhardt, F., respiration and oxidase and catalase activity of apples in relation to maturity and storage, III, 292.
- F.
- Faber, G. See Clusius, K.
 Faber, H. K., and Silverberg, R. J., pathway of invasion in a cynomolgus monkey after oral application of poliomyelitis virus, III, 608.
 Fabian, F. W., and Blum, H. B., relative taste potency of basic food constituents and their competitive and compensatory action, III, 900.
 See also Blum, H. B., Erickson, F. J., and Nunheimer, T. D.
 Fabricant, N. D., treatment of Menière's syndrome, III, 236.
 and Van Alyea, O. E., evaluation of privine hydrochloride as a nasal vasoconstrictor, III, 586.
 Facey, R. V., encephalitis with skin eruption after vaccination, III, 529.
- Faessler, A., metamictic state, I, 33.
 Fagan, R. H., mutation of genes by irradiation, III, 708.
 Fagerlund, A. M. See Adler, Erich.
 Faget, G. H., Johansen, F. A., and Ross, H., sulphanilamide in treatment of leprosy, III, 341.
 Fagin, I. D., Sahyun, M., and Pagel, R. W., cirrhosis of liver: lipotropic action of parenterally administered amino-acids, III, 745.
 Fahmy, A. Y., glaucoma cases and their treatment, III, 470.
 Failey, R. B., Anderson, Robert C., Henderson, F. G., and Chen, K. D., fate of sulphonamides and p-aminobenzoic acid in cold-blooded animals, III, 906.
 Failla, G. See Evans, T. C.
 Fairburn, H. W., X-ray petrology of fine-grained foliated rocks [slate and shale], I, 289.
 Faires, R. E. See Constant, F. W.
 Fairhall, L. T., identification of lead in bone tissue, III, 709.
 Jenrette, W. V., Jones, S. W., and Pritchard, E. A., toxicity of lead azide, III, 765.
 See also Hyslop, F.
 Fairley, N. H., and Boyd, J. S. K., dysentery in the Middle East with reference to sulphaguanidine treatment, III, 583.
 Faith, H. E. See Anderson, G. W.
 Fajans, K., quantisation of molecules, I, 81.
 Stabilisation and binding of quantised radicals, I, 82. Difficulties in valency bond theory, I, 82.
 and Berlin, T., quantisation of molecules, inter- and intra-molecular forces, I, 193.
 and Johnson, O., ion-solvent interaction and individual properties of electrolytes, I, 15.
 See also Bauer, N., and Berlin, T.
 Falbe-Hansen, J., clinical and experimental histological studies on effects of salicylate and quinine on ear, III, 475.
 Falconer, M. A., parenteral administration of fluids [in surgery], III, 377.
 and Cope, C. L., fibrous dysplasia of bone with endocrine disorders and cutaneous pigmentation (Albright's disease), III, 154.
 See also Russell, D. S.
 Falaeav, P. V., determination of small amounts of cobalt in presence of large amounts of iron, I, 237.
 Fales, C. H. See Morgan, A. H.
 Falinski, (Mlle.) M., zirconium salts, I, 16.
 Falk, A. B. See Rattner, H.
 Falk, C. R., Bucca, H. B., and Simmons, M. P., use of agar to detect contaminants in biological products, III, 206.
 Falk, H. C. See Biskind, M. S.
 Falk, K. G. See Lewis, J. M.
 Falkenhausen, H., state of order in liquid electrolyte solutions, I, 16.
 Falkenheim, M. See Hodge, H. C.
 Falkenstein, D., and Fowler, W. M., acute lymphatic leukaemia in childhood, III, 625.
 Faller, A. See Zimmerman, L. M.
 Faller, F. E., and Biltz, W. [with Meisel, K., and Zumbusch, M.], affinity. XCIX. Phosphides of tungsten, molybdenum, and chromium, I, 283.
 Fallis, L. S., and McClure, R. D., acute cholecystitis, III, 248.
 Faltis, F., Holzinger, L., Ita, P., and Schwarz, R., biscolaurine alkaloids: constitutions of chondodendrine and trilobine, II, 400.
 Fan, C. S., Stauffer, J. F., and Umbreit, W. W., experimental separation of oxygen liberation from carbon dioxide fixation in photosynthesis by *Chlorella*, III, 927.
 Fan, H. Y., contacts between metals and between a metal and a semiconductor, I, 54.
 Fan, S. See Suen, T. J.
 Fanconi, G., nutrition of healthy and ill children in wartime, III, 750.
 and Zellweger, H., epidemiology of infantile spinal paralysis, III, 851.
 Fanelli, R. See Bacon, R. F.

- Fang, L. Y. See Whitacre, F. E.
- Fankhauser, G., and Humphrey, R. R., induced triploidy in axolotls, III, 859.
- and Watson, R. C., heat-induced triploidy in *Triturus viridescens*, III, 78.
- Fankuchen, I., X-ray and optical measurements on β -lactoglobulin, I, 33.
- Fano, U., induction of gross chromosomal rearrangements in *Drosophila* sperms, III, 367.
- and Marinelli, L. D., time-intensity factor in radiobiology, III, 595.
- Fano, V., interpretation of radiation experiments in genetics, III, 155.
- Fanta, P. E. See Price, C. C.
- Fantl, P., and Rome, M. N. breakdown of commercial starches by muscle extract, III, 202.
- Farber, J. E., Gustina, F. J. and Postoloff, A. V., Cushing's syndrome in children, III, 736.
- and Margulis, A. E., blue scleras, brittle bones, and deafness, III, 730.
- Farbman, A. A. See Beaver, D. C.
- Farkas, H., and Kligler, I. J., production of anaemia by tetanus toxin, III, 694.
- Farley, D. L. See Horwitz, O.
- Farley, F. F., changes of starch during oxidation, II, 221.
- Farmer, C. J. See Abt, A. F.
- Farmer, E. H., and Sundralingam, A., course of autoxidation reactions in polyisoprenes and allied compounds. VI. Peroxidation of rubber, II, 151.
- and Sutton, D. A., course of autoxidation reactions in polyisoprenes and allied compounds. IV. Isolation and constitution of photochemically formed methyl oleate peroxide. V. Observations on fish-oil acids, II, 151.
- Farmer, L., role of endocrines in anaphylaxis and allergy, III, 237.
- Farmer, S. N., and Jones, D. A., influence of potassium on sugar metabolism [of yeast], III, 274.
- Farnim, R., intrusive versus permissive vein emplacement, I, 170.
- Farnsworth, E. B., and Barker, M. H., tubular resorption of chloride in hypertensive and normal individuals, III, 816.
- Farnsworth, N. C. See MacNeal, W. J.
- Farquhar, J. P. See Sargent, H.
- Farquharson, J., sulphonamides in treatment of calf diphtheria, III, 673.
- Farr, J. See Wheland, G. W.
- Farr, L. E., Smadel, J. E., and Holden, R. F., jun., lipæmia in rats with nephrotoxic nephritis, III, 330.
- Farr, M. M., and Allen, R. W., sulphaguanidine feeding for cæcal coccidiosis in chickens, III, 134.
- Farrell, J. I., and Young, R. H., hypertension from unilateral renal compression, III, 93.
- Farrell, M. A. See King, J. W., and Schuman, R. L.
- Farior, J. B., histopathologic considerations in treatment of Eustachian tube, III, 642.
- Farris, E. J., blood picture of athletes as affected by intercollegiate sports, III, 624.
- Farrow, J. H., and Asair, F. E., effect of orchidectomy on skeletal metastases from cancer of male breast, III, 184.
- Farthing, T. E. See Stone, L. S.
- Fastalovitsch, A. I., dendritic structure of crystallites of native gold, I, 106.
- Fastier, F. N., and Smirk, F. H., circulatory effects of some isothiourea derivatives; sensitisation of animals to pressor action of adrenaline, III, 791.
- Fastovski, V. G., and Gurvitsch, I. G., gas balance, I, 240.
- and Krestinski, J. A., solubility of solid methane in liquid nitrogen and oxygen, I.
- Fatherree, T. J., Adson, A. W., and Allen, E. V., vasoconstrictor action of adrenaline on digital arterioles of man before and after sympathectomy, III, 461.
- Fatherree, T. J., and Hurst, C., intermittent claudication; treatment with insulin-free deproteinated pancreatic extract (Depropanex), III, 230.
- Fatzer, W. See Karrer, P.
- Faulkner, W. B., jun., effect of emotions on diaphragmatic function, III, 97. Severe oesophageal spasm, III, 123.
- Faust, G. T. See Alexander, L. T., and Hill, W. L.
- Fauteux, M., experimental study of surgical treatment of coronary disease, III, 304.
- Favorite, G. O., and Morgan, H. R., effects produced by intravenous injection in man of a toxic antigenic material derived from *Eberthella typhosa*, III, 148.
- Favorski, A. E., Ivanov, V. I., and Kuznetzova, Z. I., vinyl ethers of cellulose, II, 84.
- Fawcett, D. W., amedullary bones of Florida manatee (*Trichechus latirostris*), III, 1.
- Fawcett, E., complete common paraseptal cartilage in primate, III, 221.
- Fay, M., Behrmann, V. G., and Buck, D. M., parathyroids and renal clearance of inorganic phosphate, III, 37, 248.
- Fazekas, J. F. See Bueding, E., and Himwich, H. E.
- Fazio, F. See Maglio, M. M.
- Fearon, W. R., thiourea and wound repair, III, 424.
- and Kawerau, E., ascorbic acid. I. Detection and estimation, II, 248. Oxidation of ascorbic acid by *o*-dinitrobenzene; detection of dehydroascorbic acid, III, 825.
- Feasley, C. F. [with Degering, E. F.], condensation of aryl diazonium salts and hydroxides with secondary nitroalkanes, II, 186.
- Featherstone, R. M., and Berg, C. P., availability of *d*(+)- and *l*(-)-histidine for production of liver-glycogen, III, 261.
- Feder, A. See Vorhaus, M. G.
- Feder, J. M. See Harper, H. Y.
- Fedorov, N. A., and Shur, E. I., rôle of viscera in regulating temperature of body, III, 259.
- Feeen, B. G. See Behnke, A. R., jun.
- Feeeny, H. See Giguère, P. A.
- Feher, F., graphical evaluation of Debye-Scherrer photographs, I, 299.
- Fehnel, E. A., formation of insoluble sulphur in presence of gases other than sulphur dioxide, I, 135.
- Fehnel, J. W. See McConnell, W. J.
- Feigen, G. A. See Alles, G. A.
- Feigenbaum, J., sucrose-free taka-sucrase, III, 427.
- Feigl, F., spot tests in teaching of chemistry, I, 98. Drop reaction experiments. I. Catalytic reactions. II. Reaction on filter-paper. III. Heterogeneous reactions, I, 233.
- and Cardoso, H. T., identification of ascorbic acid, III, 667.
- Miranda, L. I., and Suter, H. A., reactions of the solid state, I, 281.
- and Suter, H. A., analytical use of sodium rhodizonate [detection of lead], I, 42.
- and Suter, H., identification and determination of small quantities of permanganate in presence of large amounts of chromate, I, 285.
- Feil, H., auricular wave of human electrocardiogram in normal and pathological states, III, 460.
- Feil, L., iron treatment of anaemia with ferredoxon-Roche, III, 711.
- Feiling, A., epilepsy, III, 467.
- Fein, H. D. See Bueding, E., and Ralli, E. P.
- Feinberg, S. M., Alt, H. L., and Young, R. H., allergy to injectable liver extracts; clinical and immunological observations, III, 623.
- Feindel, W. H. See Weld, C. B.
- Feingold, F. B., vegetable milk substitute: taro, III, 899.
- Feinstein, B. See Weddell, G.
- Feinstein, M. See Megibow, R. S.
- Feinstone, W. H. See Fitzgerald, R. J.
- Feissly, R., proteinases in acid-globulin plasma fraction and their role in thrombin formation, III, 160.
- Feitknecht, W., laminar disperse hydroxides and basic salts of bivalent metals, I, 251.
- and Berger, A., formation of nickel and cobalt silicates with planar lattices, I, 207.
- Fekete, E., and Duran-Reynals, F., hyaluronidase in fertilisation of mammalian ova, III, 809.
- and Little, C. C., mammary tumour incidence of mice born from transferred ova, III, 183.
- Feldberg, W., synthesis of acetylcholine in sympathetic ganglia and cholinergic nerves, III, 639.
- Feldman, F. See Rosenfeld, S.
- Feldman, H. A. See Dowling, H. F.
- Feldman, H. S. See Youngken, H. W., jun.
- Feldman, M., intensified cholecystography, III, 655.
- Goodman, J. E., and Weinberg, T., varices of gall-bladder, associated with a mucosal cyst, II, 248.
- See also Morrison, S.
- Feldman, M. H., Burton, M., and Ricci, J. E., counting of free alkyl radicals; application to photolysis of acetone, I, 22.
- Feldman, W. H., and Hinshaw, H. C., comparative effects of six compounds administered with therapeutic intent to tuberculous guinea-pig, III, 672.
- Hinshaw, H. C., and Moses, H. E., therapeutic effects of disodium formaldehyde-sulphoxylate-diaminodiphenyl sulphone in experimental tuberculosis, III, 831.
- Feldmann, U. See Goehring, M.
- Feldt, R. H., and Wenstrand, D. E. W., arterial hypertension, III, 550.
- Felger, L., and Gendel, S., clinical investigation of stilboestrol, III, 740.
- Felix, A., typing typhoid bacilli by vi bacteriophage, III, 526. Typhus groups of fevers, III, 530.
- Fellers, C. R. See Anderson, E. E., Dunker, C. F., Levine, A. S., Tarkow, L., and Tischer, R. G.
- Fellows, E. J., substituted sulphanilamido-pyrimidines, III, 672.
- See also Cunningham, R. W.
- Fels, E., hypophyseal function and ovarian ligature, III, 890.
- and De Eandi, F. F., role of liver in metabolism of oestrogens, III, 810.
- Fels, S. S. See Shay, H.
- Felsenfeld, O., isolation of mannitol-fermenting shigelle, III, 922.
- and Heilbrunn, G., two artificial "O" forms of *Proteus vulgaris* and their enzymic properties, III, 774.
- Felsing, W. A., and Watson, G. M., pressure-volume-temperature relations of $\alpha\alpha$ -trimethylpentane, I, 197.
- See also Dailey, B. P., Lemons, J. F., and Teague, P. C.
- Felton, H. M., and Flosdorf, E. W., clinical results with use of agglutinogen from phase I *Hæmophilus pertussis* as skin test for susceptibility to whooping cough, III, 921.
- See also Flosdorf, E. W.
- Fendrik, B. See Cicardo, V. H.
- Fenn, G. K. See De Takats, G.
- Fenner, F., eosinophilic leukaemia, III, 864.
- See also Baker, B. A.
- Fenning, C., electronic device for location of metallic fragments *in vivo*, III, 780.
- Fenske, M. R. See Rank, D. H., and Stone, R. W.
- Fenton, R. A., otology and aviation, III, 106.
- Fenyo, I. See Jany, J.
- Feoflov, P. P., night illumination and energy distribution in spectrum of night sky, I, 45.
- See also Brumberg, E. M., and Vavilov, S. I.
- Feber, E., and Schmolke, G., synthesis of 5-methoxyisatin, II, 338.
- Feresten, M. See Wimpfheimer, S.
- Ferguson, A. See Yudkin, J.

- Ferguson, A. L., and Towns, M. B., overvoltage. XIII. Decay of cathode potential in still and stirred solutions saturated with hydrogen or with nitrogen. XIV. Hydrogen decomposition potentials under various conditions in acid solutions at platinised platinum electrodes. XV. Decomposition potentials: cathodic and anodic polarisation of a platinised platinum cathode near the reversible value in hydrogen-saturated acid solutions. XVI. Cathodic and anodic polarisation of a platinised platinum cathode near the reversible value in nitrogen-saturated acid solutions. I, 18, 63, 279.
- Ferguson, A. S., and Lockwood, J. R., coronary occlusion in 26-year-old male with recovery. III, 162.
- Ferguson, C., and Gersten, S., treatment for gonorrhoea. III, 195.
- Ferguson, E. A. See Meyer, E. E.
- Ferguson, E. E. See Lower, W. E.
- Ferguson, F. F., Holmes, J. R., and Lavor, E. M., effect of sulphonamide drugs on free-living organisms. III, 341. See also Lavor, E. M.
- Ferguson, J., effect of propylene glycol and progesterone on motility of isolated intestine of the rabbit. III, 563.
- Ferguson, J. B. See Barnartt, S.
- Ferguson, J. H., estimation of trypsin by fibrinolysis. III, 351. Crystalline trypsin-inhibitor and blood clotting. III, 372. Assay of tryptases by lysis of fibrinogen. III, 343.
- Ferguson, L. K., Calder, D. G., and Reinhold, J. G., ivy bleeding time, serum volume index, and prothrombin content of blood in estimating bleeding tendency in jaundice. III, 626. See also Chambers, L. A.
- Ferguson, M. See Cameron, A. T.
- Ferguson, M. S. See Baker, J. A.
- Ferguson, R. H., Rosevear, F. B., and Stillman, R. C., solid soap phases. I, 306.
- Ferguson, W. S., teat pastures of Somerset. IV. Effect of continuous administration of copper sulphate to dairy cows. III, 663. Digestibility of straw pulp. III, 521.
- Fergusson, A. G. See Sheehan, H. L.
- Feriz, H., tampons and membranes made of collagen. III, 488.
- Fernandez, E. See Pradera, E. S.
- Fernelius, W. C. See Bright, J. R., Greenlee, K. W., Larsen, E. M., and Marchi, L. E.
- Fernholz, D. L., and Potter, G. F., resistance of tung trees to low temperatures. III, 533.
- Fernholz, M. E. See Lettré, H.
- Fernow, H. See Kern, W.
- Ferrari, and Cecconi, B., hexahalogeno-aurates. III. Double hexabromoaurates. I, 133.
- Ferrebee, J. W. See Owen, P. S.
- Ferree, C. E., and Rand, G., colour in protective night light. III, 386. Colour and composition of light in relation to blackout. III, 386. Eye factor in wartime lighting. III, 471.
- Ferreira, B. A., composition of calcareous rocks of São Roque series. I, 289.
- Ferretti, B. See Amaldi, E.
- Ferr, C. See Dani, A.
- Ferrill, H. W., effect of chronic insulin injections on reproduction in white rats. III, 883.
- Ferry, C. W., Ardis, A. E., and Buck, J. S., quaternary salts from β -dimethylamino-d-thiomxydiethyl ether. II, 31. See also Baltzly, R., and Buck, J. S.
- Ferry, J. J. See McConnell, W. J.
- Fetz, H., cathodic sputtering by oblique ionic bombardment. I, 214.
- Feuer, I. See Peshkin, M. M.
- Fevold, H. L., luteinising hormone of anterior pituitary. III, 561.
- Feyel, P., action of steroid hormones on mouse kidney. III, 815.
- Fichter, F., and Steinbuch, W., electrolysis of mixtures of nitrate with malonic acid, the hydrogen ester of malonic acid, ethyl- and dimethyl-malonic acid, and succinic acid. II, 183.
- Fickas, D. See Cox, W. M., *jrs.*
- Fidler, R. S. See Silbernagel, W. M., and Spyker, M. A.
- Fieandt, O. von, case of sulphonamide myopia with investigation of its pathogenesis. III, 501.
- Fiechter, N., effect of vitamin-K in newborn infants. III, 826.
- Fiedler, H., [pharmacological] action of sulphonated thiophen-containing shale oils. III, 53.
- Fiegenbaum, J., effect of oxidants and reductants on sugar-hydrolysing enzymes. III, 58.
- Field, C. E., and Quilliam, J. P., primary bronchial carcinoma at age of 4 years 4 months. III, 660.
- Field, H., anthropology of Iraq. III, 3.
- Field, H., *inn.* See Fox, S. W., and Melnick, D.
- Field, H. B., comparison of ocular imagery. III, 541.
- Field, J., *jrs.* See Fuhrman, F. A., and Van Wagendonk, W. J.
- Field, J. B., Baumann, C. A., and Overman, R. S., prothrombin activity during pregnancy and lactation. III, 713.
- Elvehjem, C. A., and Judy, C., blood constituents of carp and trout. III, 715. See also Baumann, C. A., and Overman, R. S.
- Fielding, J. W., typhus: modified Breinl method for staining rickettsiae and other inclusions. III, 925.
- Fields, E. M. See Gordon, M. B.
- Fields, M. See Lingane, J. J.
- Fieness, R. N. T. W. See Carmichael, J.
- Fiero, G. W. See Quinby, S.
- Fierst, S. M. See Abramson, D. I.
- Fierz-David, H. E., and Sponagel, R., nitration of naphthalene. II, 185.
- and Stockar, W., naphthazarin. II, 193. See also Blangze, L., and Jadassohn, W.
- Fies, H. L. See Langner, P. H., *jnr.*
- Fieser, L. F., and Chang, F. C., alkylation of 1:4-naphthaquinones with esters of quadrivalent lead. II, 38.
- Clapp, R. C., and Daudt, W. H., methylation of aromatic nitro-compounds with lead tetra-acetate. II, 26.
- and Jones, R. N., celastrol; spectrographic characterisation and colour tests. II, 39.
- and Oxford, A. E., alkylation of p-quinones by acyl peroxides. II, 39.
- See also Dohriner, A.
- Fieselmann, H. See Pummerer, R.
- Fife, J. M., hydroxyl-ion concentration of the saliva of partly desiccated beet leaf hoppers. III, 400. Effect of different oxygen concentrations on rate of respiration of *Azotobacter* in relation to energy involved in nitrogen fixation and assimilation. III, 918.
- Figge, F. H. J., and Clarke, C. D., Kodachrome photography of fluorescence phenomena. III, 151.
- and Salomon, K., prevention of porphyrin incrustations on pantothenic acid-deficient rats by Harderian gland ablation. III, 130.
- Figurovskii, N. A., and Smirnova, A. M., conductivity of thin layers of powdered sorbents in conditions of sorption of gases and vapours. I, 154.
- Filippova, A. G., determination of sesquioxides in the form of phosphates. I, 236.
- Filippova, N. S., Tartakovski, I. S., and Manshelej, M. E., refractive index and density of solutions in aqueous alcohol. I, 179.
- Filiti-Wurmser, S., and Veiga-Salles, J. B., action of ascorbic acid oxidase on reductone. III, 768.
- See also Wurmser, R.
- Fillinger, G. A., and Cardwell, A. B., determining when a plant is killed by extremes of temperature. III, 533.
- Filmore, B. S. See Gingrich, W. D.
- Finch, E. See Hickmans, E. M.
- Finch, J. W., nausea and vomiting with stilboestrol. III, 241.
- Fincke, M. L., and Landquist, F. A., daily intake of ascorbic acid required to maintain adequate and optimum levels of this vitamin in blood plasma. III, 256.
- Little, R., Reinders, Z., and Perkins, J., thiamin values of frozen peas. III, 575. See also Brown, A. P.
- Findlay, F. M., blood pressure [regulation]. III, 229. Experimental production of hypertension. III, 232. Surgical approach to hypertension. V. Adrenal medulla. VI. Autonomic nervous system. VII. Criteria for operation. VIII. Adrenal denervation and removal. IX. Post-operative care and complications. X. End results of adrenal surgery. XI. Splanchnic resection, ganglionectomy, and anterior root section. XII. End results of sympathetic surgery and X-irradiation. III, 506, 631.
- Finilly, G. M., action of surface-active substances on yellow fever virus (neurotropic strain). III, 530.
- and Martin, N. H., jaundice following yellow-fever immunisation. III, 925. See also Maegraith, B. G.
- Findlay, L., and Kamp, F. H., osteomyelitis of spine following lumbar puncture [treated with penicillin]. III, 575.
- Findley, T., Edwards, J. C., Clinton, E., and White, H. L., clearance of diodrast, phenylsulphonephthalein, and inulin in hypertension and nephritis. III, 566. Measuring renal blood flow and tubular excretory mass. III, 745.
- Fine, J. See Frank, H. A., Seligman, A. M., and Starr, A.
- Finerty, J. C. See Elder, W. H.
- Finsinger, J. E., and Maxik, S. G., effect of painful stimuli and its recall on respiration in psychoneurotic patients. III, 100. See also Lindemann, E., and Ruesca, J.
- Finger, F. W. See Lindsey, D. B.
- Fink, D. L., and Moss, A. J., treatment of myasthenia gravis with oral prostigmine. III, 551.
- Fink, H., and Just, F., biochemistry of *Torula utilis*. V. Nicotinic acid content of fodder yeast, spent waste, brewer's yeast, and press-yeast; total synthesis of nicotinic acid by *Torula*. III, 655. Fate of vitamin-B₁ of barley in barley mills. III, 901.
- Fink, H. L. See Aston, J. G.
- Fink, H. W., and Wilson, J. L., dangers of repeated administration of sulphadiazine and sulphathiazole in children. III, 760.
- Fink, L. D. See Holek, H. G. O.
- Finkel, A. J., Allee, W. C., and Garner, H. R., copper and acceleration of early cleavage of *Arbacia* eggs. III, 809. See also Allee, W. C.
- Finkelman, I., and Arieff, A. J., toxicity of phenytoin sodium in epilepsy. III, 98. See also Mallach, J. F., and Pollock, L. J.
- Finkelburg, W., and Hahn, O. T., electron retardation and recombination radiation in discharges in gases. I, 78.
- and Schluge, H., carbon arc at high current density. VI. Spectral energy distribution in radiation from high-current carbon arc. I, 45.
- Finkelstein, A. See Lowman, R. M.
- Finkelstein, B. N., and Tscharsin, M. P., electroviscous effect. I, 304.
- Finkelstein, H., Marx, W., Beard, D., and Beard, J. W., pH stability of virus of equine encephalomyelitis Eastern strain under various conditions. III, 68. See also Taylor, A. R.
- Finkler, R. S., Furst, N. J., and Cohn, G. M., use of male sex hormones and chorionic gonadotropin as growth-stimulating factors. III, 174.
- Finland, M., antipneumococcus serums. III, 692.
- Peterson, O. L., and Strauss, E., sulphonamides in staphylococcal pneumonia following influenza. III, 49. See also Goodwin, R. A., *jnr.*, and Peterson, O. L.

- Finlay, G. R.** See **Bauer, S. H.**, and **Laubengayer, A. W.**
- Finlayson, M. H.** See **Isaac, W. E.**
- Finn, S. R.**, and **Powell, E. O.**, chemical and physical investigation of germicidal aerosols. II. The aerosol centrifuge, III, 271.
- Finnegan, J. K.**, and **Emerson, George A.**, choleretic effect of chloroacetylcholine, III, 815.
- Finney, D. J.**, detection of linkage, III, 79.
- Finstiner, H.**, surgical treatment of acute cholecystitis and common duct obstruction, III, 248.
- Finzi, N. S.**, and **Freund, F.**, radiotherapy for wounds and inflammation, III, 517.
- Firminger, H. I.** See **Wicks, L. F.**
- Firor, W. M.** See **Shumacker, H. B., jun.**
- Firth, D.** See **Dacie, J. V.**
- Fischer, A. E.**, and **Florman, A. L.**, transitory hemiplegia associated with hypoglycaemia in diabetic child with congenital heart disease, III, 383.
- Mackler, H. S.**, and **Marks, H. H.**, long-term growth of diabetic children, III, 153.
- Fischer, C.**, and **Müller, F. H.**, diffusion of water in a foil as a cause of an electric current, I, 125.
- Fischer, C. C.**, **Tropea, T., jun.**, and **Bailey, C. P.**, congenital pulmonary cysts, III, 898.
- Fischer, C. N.** See **Witkowski, L. J.**
- Fischer, E.**, influence of atropine on atrophy of denervated skeletal muscle of rat, III, 307. Preparation of active fraction of pineal gland, III, 882.
- Fischer, E. B.** See **Youngken, H. W., jun.**
- Fischer, F. G.**, is acetylene linking hydrogenated by enzymes ?, III, 55.
- Roedig, A.**, and **Rauch, K.**, biochemical hydrogenations. IX. Fumarate-hydrogenase as yellow enzyme, III, 349.
- Fischer, G.** See **Seck, W.**
- Fischer, Hans**, and **Eckoldt, H.**, chlorophyll. XCVIII. Conversion of porphyrins into dihydroxychlorins by the action of osmium tetroxide, II, 396.
- and **Gibian, H.**, chlorophyll. CXIV. Transition from the chlorophyll-*b* into the *a*-series, II, 143.
- and **Guggemos, H.**, bile pigments. XXVII. Synthesis of 5:5'-diamino-4:4'-dimethyl-3:3'-diethylpyrromethene, II, 281.
- and **Oestreicher, A.**, chlorophylls. XCIV. Protochlorophyll and vinylporphyrins; oxo-reaction, II, 281.
- and **Plieninger, H.**, bile pigments. XXXV. Synthesis of biliverdin (uteroverdin), bilirubin, biliverdins, XIII*a* and XII*a*, and of vinylneoxanthic acid, II, 46.
- and **Reinecke, H.**, methoxyglaucobilins, a new type of bilirubinoid pigment; Gmelin's reaction, II, 73.
- Fischer, Hans** (Zurich), inhalation therapy, III, 424.
- Fischer, Hubert**, and **Schöntag, A.**, minimum wall-thickness and optimum wall-thickness of luminescent glasses in illuminating tubes, I, 115.
- Fischer, H. O. L.** See **Baer, E.**
- Fischer, Louis**. See **Arrigoni, L.**, and **Krupski, E.**
- Fischer, Louise**. See **Smyth, H. F., jun.**
- Fischer, R.**, identification of small amounts of liquids, I, 101.
- Fischer, W.** [with **Herrbach, P.**, **Plempe, H.**, and **Wirths, G.**], extraction of rare earth and beryllium compounds from gadolinite, I, 96.
- and **Bock, R.**, preparation of pure scandium compounds, I, 96.
- Fischthal, J. H.**, number of larvæ and time required to produce active immunity in rats against *Trichinella spiralis*, III, 612.
- Fish, C. H.**, and **Beckwith, T. D.**, precursors to formation of creatinine by bacteria, III, 206.
- Fish, W. M.**, acne rosacea keratitis and riboflavin (vitamin-B₂), III, 384.
- Fish, W. R.** See **Dorfman, R. I.**
- Fishback, H. R.**, **Dutra, F. E.**, and **MacCamy, E. T.**, production of chronic hypertension in dogs by progressive ligation of arteries supplying the head, III, 869.
- Fishberg, A. M.**, hypertension due to renal embolism, III, 232. Sulphonamides in renal insufficiency, III, 582.
- Fishburn, A. G.**, and **Smith, M. J.**, preparation of "N/10-bromine," I, 98.
- Fisher, A.**, unusual case of match dermatitis, III, 532.
- Fisher, A. M.** See **Scott, D. A.**
- Fisher, B.** See **Pecora, W. T.**
- Fisher, C. E.**, and **Mulligan, R. M.**, quantitative study of correlation between basophilic degeneration of myocardium and atrophy of thyroid gland, III, 867.
- Fisher, C. H.**, **Rehberg, C. E.**, and **Smith, L. T.**, pyrolysis of lactic acid derivatives; preparation of allyl and methyl acrylates, II, 251.
- See also **Rehberg, C. E.**
- Fisher, C. V.** See **Martin, G. J.**
- Fisher, D. J.**, crystal models, I, 288.
- Fisher, E.**, action of organic acids on cornstalk lignin, II, 180.
- Fisher, H.**, **Inkster, C.**, and **Biely, J.**, ineffectiveness of cow urine in control of *Eimeria tenella* infection in chickens, III, 146.
- Fisher, H. J.**, xanthone-2,7-dinitrile, II, 274.
- Fisher, H. R.** See **Sappington, S. W.**
- Fisher, L. W.**, structure and metamorphosis of Lewiston, Maine, Region, I, 292.
- Fisher, R. A.**, atomic beam light sources applied to the structure of the magnesium I resonance line, I, 209.
- Fishler, M. C.** See **Zilversmit, D. B.**
- Fishman, M.**, picrotoxin in barbiturate poisoning, III, 138.
- Fishman, W. H.**, and **Artom, C.**, serine injury, III, 41.
- and **Cohn, M.**, comparison of acetylation *in vivo* of phenylaminobutyric acid with *p*-aminobenzoic acid and sulphanilamide, III, 671.
- See also **Artom, C.**
- Fisk, R. T.**, therapeutic properties of sulphanilamide and related drugs in experimental typhoid infection of mice, III, 417.
- and **Foord, A. G.**, Rh agglutininogen of human blood, III, 370.
- Fiske, C. H.** See **Hitchings, G. H.**
- Fiske, R. T.**, staphylococci. I. Occurrence of bacteriophage carriers among strains of *Staphylococcus aureus*. II. Identification of *Staph. aureus* strains by means of bacteriophage, III, 283.
- Fitch, F. R.**, treatment of gonorrhoeal vulvovaginitis with silver picrate suppositories, III, 835.
- Fite, G. L.**, leprosy from histologic point of view, III, 621.
- Fitz, R.**, **Walker, B. S.**, and **Branch, C. F.**, polycythaemia vera, III, 301.
- Fitzgerald, G.**, and **Hallpike, C. S.**, effects of cerebral lesions upon caloric responses, III, 319. Human vestibular function. I. Directional preponderance of caloric nystagmus resulting from cerebral lesions, III, 319.
- and **McArdle, B.**, pethidine and pain, III, 763.
- See also **Cawthorne, T. E.**, and **Dixon, G. J.**
- Fitzgerald, J. E.**, and **Webster, A.**, barbiturates and vitamin-K, III, 372.
- See also **Windle, W. F.**
- Fitzgerald, O.** See **O'Malley, E.**
- Fitzgerald, R. J.**, and **Feinstone, W. H.**, activity of sulphonamides for tubercle bacillus, III, 758.
- Fitz-Hugh, T. jun.**, and **Hodes, P. J.**, clinical experience with radio-phosphorus in treatment of blood dyscrasias, III, 159.
- Fitzpatrick, F.** See **Gold, Herman.**
- Fitzpatrick, L. J.** See **Forsee, J. H.**
- Flachs, K.** See **Abramson, D. I.**
- Flad, M.** See **Grube, G.**
- Flagg, J.**, and **Froehner, M.**, allergic myocarditis and nephritis and hilus tuberculosis, III, 612.
- Flammersfeld, A.**, **Jensen, P.**, and **Gentner, W.**, partition relations and energy of disintegration of uranium, I, 270.
- Flanagan, M. E.** See **Loughlin, E. H.**
- Flannagan, G. N.** See **Spencer, H. M.**
- Flaschentrager, B.**, and **Allemann, R.**, syntheses of ethylene $\alpha\beta$ -disubcate and glyceryl $\alpha\beta$ -trisubcate; metabolic experiments with ethylene $\alpha\beta$ -disubcate and sebatic acid, II, 81.
- Flax, L. J.**, **Barnes, M.**, and **Reichert, J. L.**, vitamin-A absorption and its relation to intestinal motility in fibrocystic disease of pancreas, III, 396.
- Levert, E. L.**, and **Strong, R. A.**, premature mortality, III, 399.
- Flaxman, N.**, digitalis in arteriosclerotic heart failure, III, 343. Treatment of hypertensive patient in pre-cardiac stage, III, 632.
- Flucker, H.**, time of appearance and fusion of ossification centres, III, 1.
- Fleeson, W.**, and **Gildea, E. F.**, study of personalities of 289 abnormal drinkers, III, 639.
- Fleet, J.** See **Sako, W.**
- Fleiger, A. G.** See **Piper, J. D.**
- Fleisch, A.**, physiology of nutrition and preserved food, III, 750.
- and **Weger, P.**, afferent nerves in walls of blood vessels, III, 639.
- See also **Domenjoz, R.**
- Fleischhauer, G.**, and **Gebauer, B.**, administration of pernicious in guinea-pigs, III, 344.
- Fleischer, G. A.**, alcohol-solubility of prolactin, See also **Schwenk, E.**
- Fleischer, M.**, determination of active oxygen in presence of barium or lead, I, 161.
- See also **Richmond, W. E.**
- Fleischmann, R.**, nuclear chemistry, I, 141, 294.
- Fleischmann, W.**, and **Shumacker, H. B., jun.**, cholesterol and thyroid function, III, 556.
- Shumacker, H. B., jun.**, and **Straus, W. L., jun.**, influence of age on effect of thyroidectomy in rhesus monkey, III, 735.
- Fleming, A. M.**, clinical significance of degree of calcification of placenta as shown by X-ray photography, III, 563.
- Fleming, G.** See **Benjamin, B.**
- Fleming, G. W. T. H.**, and **McKissock, W.**, prefrontal leucotomy, III, 725.
- Fleming, R. B. L.**, **Miller, J. W.**, and **Swayne, V. R., jun.**, phosphorus toxicology, III, 346.
- Fleming, W. D.**, synthetic mounting medium of high refractive index, III, 785.
- Fletcher, E.** See **Newman, H.**
- Fletcher, E. S., jun.** See **Dean, R. B.**
- Fletcher, J. H.**, and **Terrell, D. S.**, derivatives of creosol, II, 324.
- See also **Todd, C. W.**
- Fleury, P.**, subjective homochromic solution to problem of heterochromic photometry, I, 71.
- and **Courtois, J.**, oxidation of sucrose by periodic acid, II, 84.
- Flexner, J.**, **Chassin, M.**, and **Wright, I. S.**, herpes simplex encephalitis in rabbits. I. Therapeutic effect of vitamin-C, sulphanilamide, and pitressin, III, 140.
- See also **Rosett, N. E.**
- Flexner, L. B.**, and **Gellhorn, A.**, transfer of water and sodium to amniotic fluid of guinea-pig, III, 118. Transfer of water across placenta of guinea-pig, III, 118.
- Flink, E. B.**, and **Watson, C. J.**, determination of haemoglobin and related haem pigments in faeces, urine, and plasma, III, 296.
- Flint, A.** See **Seelmann, M.**
- Flint, H. T.**, fundamental equation of quantum mechanics, I, 245.
- Flippin, H. F.**, causes for unsuccessful sulphonamide therapy of pneumonia, III, 582.
- See also **Clark, J. K.**, and **Murphy, Franklin D.**
- Flock, E. V.**, and **Bollman, J. L.**, effect of diethylstilboestrol on plasma-phospholipins of cock, III, 29.
- See also **Bollmann, J. L.**
- Floersch, E. B.** See **Rubnitz, A. S.**
- Flood, A. J.** See **Ingraham, H. S.**

- Flood, H., graphical method of calculating pH in acid, base, and salt solutions, I, 267.
- Florencio, W., and De Castro, C., uraninite in Minas [Geraes], I, 323.
- Florenski, K. P., thermostat keeping an exactly controlled temperature, I, 317.
See also Teis, R. V.
- Florenz, H., device for improving temperature regularity in laboratory tube furnaces, I, 70.
- Florey, H. W. See Chain, E., and Florey, M. E.
- Florey, M. E., and Florey, H. W., administration of penicillin, III, 758.
- Florman, A. L. See Fischer, A. E.
- Flory, P. J., random reorganisation of mol. wt. distribution in linear condensation polymers, I, 10. Viscosities of polyester solutions; application of the melt viscosity-mol. wt. relationship to solutions, I, 90. Mol. wt. and intrinsic viscosities of polyisobutylenes, I, 199.
- Flosdorff, E. W., Bondi, A., jun., Felton, H. M., and McGuinness, A. C., comparative antigenic analysis of *Bacillus parapertussis* and *Hæmophilus pertussis*, phase I, III, 436.
- and McGuinness, A. C., antigenic structure of *Hæmophilus pertussis* and its clinical significance, III, 64.
See also Ehrlich, W. E. and Felton, H. M.
- Flothrop, P. G., vascular lesions of extremities, III, 632.
- Flower, E. P., deafness in twins; otosclerosis in identical twins, III, 317.
- Flowerdew, R. E., and Bode, O. B., vitamin-C investigations in internment camp, III, 754.
- Floyd, D. E. See Raiford, L. C.
- Floyd, N. See Medes, G.
- Flüge, S., isomerism in nuclear physics, I, 30.
- Fluhmann, C. F., anaesthesia and analgesia in obstetrics, III, 676. Biological characteristics of equine gonadotrophic hormone, III, 812.
- and Laqueur, G. L., deciduoma formation in rats during testosterone treatment, III, 34.
See also Laqueur, G. L.
- Flynn, J., photo-retinitis in anti-aircraft look-outs, III, 315.
- Flynn, T. T., and Hill, J. P., later stages of cleavage and formation of primary germ layers in Monotremata, III, 222.
- Flynn, V. P., clinical test for dark adaptation, III, 386.
- Flynn, W. A., sulphapyridine anuria, III, 907.
- Foà, N. L. See Foà, P. P.
- Foà, P. P., and Foà, N. L., determining effective renal blood flow and tubular excretory mass in man, III, 486.
- Foà, N. L., and Peet, M. M. effect of pregnancy on experimental renal hypertension in rats, III, 11.
- Fodor, G. von. See Foldi, Z.
- Fodor, P. J., Kuk, S., and Diamante-Lichtenstein, J., nature of peptones, III, 400.
- Foldes, E., is urticaria pigmentosa a form of nævus ?, III, 657.
- Foldes, F., and Strausz, E., addition of zinc salts to posterior pituitary hormone, III, 113.
- Foldi, Z., and Fodor, G. von, synthetic oestrogens of the diphenylethane series, II, 325.
- Fodor, G. von, Demjan, I., Szekeres, H., and Halmos, I., formation of pyrimidine rings. II, II, 17.
- Forster, T., absorption of light by organic molecules and ions according to quantum mechanics, I, 295.
- Foex, M., electrical conductivity of beryllia and magnesia at high temperatures, I, 148.
- Fogelson, S. J. See Bachrach, W. H., and Shoch, D.
- Fogg, G. E., nitrogen fixation by blue-green algae, III, 699.
- Fogg, L. C., and Warren, W., cytologic effects of repeated doses of radiation on mouse sarcoma 180, III, 128.
- Foght, E., salicylate and quinine deafness and Mygind-Dederding view of hearing tests, III, 555.
- Foglia, V. G., importance of choline in nutrition, III, 751.
- and Braun-Menendez, E., activity of toad lymph hearts, III, 548.
- and Houssay, H. E. J., anatomical changes in rats after hypophysectomy, III, 737.
- Foisie, P. S., haemorrhage from ruptured corpus luteum in 12-year-old, III, 479.
- Foleh, J., brain cephalin, a mixture of phosphatides; separation from it of phosphatidylserine and -ethanolamine, and a fraction containing an inositol phosphatide, II, 75. Nature of glycerophosphoric acid present in phosphatides, II, 80.
- Foldes, F. F., and Beecher, H. K., effect of cholesterol administration on anaesthesia, III, 833.
- Foley, E. J., protective caps for glass tissue grinders, III, 76.
- Foley, J. O., protargol method for staining nerve fibres in frozen or celloidin sections, III, 300. Composition of cervical sympathetic trunk, III, 798.
- Folk, M. R., marginal degeneration of cornea, III, 799.
- Folkers, K., Koniuszy, F., and Shavel, J., jun., *Erythrina* alkaloids. XIII. Constitution of erythraline, erythramine, and erythratine, II, 74.
- and Shavel, J., jun., *Erythrina* alkaloids. XII. Chromatographic analyses of erysodine, erysovine, and "erysocine"; technique for preparative isolation, II, 49.
See also Mozingo, R.
- Follansbee, R. See Beecher, H. K.
- Folley, S. J., ghost formation in subcutaneously implanted tablets of synthetic oestrogens, III, 31. Retarding effect of ghost formation on absorption from subcutaneously implanted hexestrol tablets, III, 241.
- Scott-Watson, H. M., and Amoroso, E. C., experiments on lactation in thyroidectomised rats: role of parathyroids, III, 33.
See also Blair, G. W. S.
- Follis, R. H., jun., effect of exercise on rats fed a diet deficient in potassium, III, 334. Effect of mechanical force on skeletal lesions in acute scurvy in guinea-pigs, III, 578. Thiamin deficiency and myocardial necroses, III, 631.
- Carnes, W. H., and Jackson, D., skeletal changes associated with erythroblastosis foetalis, III, 82.
- Müller, M. H., Stein, H. J., and Wintrobe, M. M., development of myocardial necrosis and absence of nerve degeneration in thiamin deficiency in pigs, III, 576.
See also Wintrobe, M. M.
- Foltz, E. E., Barborka, C. J., and Ivy, A. C., influence of amphetamine (benzedrine) sulphate, d-deoxyephedrine hydrochloride (pervitin), and caffeine on work output and recovery, III, 511.
- Ivy, A. C., and Schiffman, M. J., influence of amphetamine (benzedrine) sulphate and caffeine on performance of exhausting work by untrained subjects, III, 511.
- Fonda, G. R. See Froelich, H. C.
- Fontaine, F. E., Peterson, W. H., McCoy, E., and Johnson, M. J., glucose fermentation by *Clostridium thermoaceticum* n. sp., III, 281.
- Fontana, B. J., hydrogen exchange of aromatic amines with D_2O and T_2O , I, 38.
- Fontana, C. M. See Simons, J. H.
- Foord, A. G. See Fisk, R. T.
- Foord, D. C. See Salle, A. J.
- Foote, F. S. See Carr, J. L.
- Forbes, C. S., absorption spectra and photochemistry, with reference to water solutions, I, 5.
- Forbes, G., tetrachloroethane poisoning, III, 515.
- Forbes, G. B. See Salmon, G. W.
- Forbes, G. S., and Crampton, H. E., crowding and growth in pond snails, III, 859.
See also Benson, S. W.
- Forbes, H. W. See Roughton, F. J. W.
- Forbes, J. C., Leach, B. E., and Williams, G. Z., protective action of sulphanilamide against liver cirrhosis from chronic poisoning with carbon tetrachloride, III, 330.
- Forbes, R. D., Davidson, C. F., and Duncan, J., hyperinsulinism due to tumour of pancreas, III, 239.
- Forbes, R. P. See Stevenson, A.
- Forbes, S. B., quinine in relation to nerve deafness, III, 555.
- Forbes, T. R., period of gonadal activity in Maryland muskrat, III, 35. Fate of medullary cords of human ovary, III, 450. Relative absorption rates of subcutaneous pellets of various crystalline compounds [sex steroids] in the rat, III, 740.
- Forbes, W. H. See Johnson, R. E., and Metheny, E.
- Ford, N., and Frumkin, S., monozygosity in mongoloid twins, III, 78.
- Ford, T. R. See Doshay, L. J.
- Ford, Z. W., jun. See Sure, B.
- Fordyce, C. R. See Hearon, W. M.
- Forman, S. E. See Krantz, J. C., jun.
- Fornoff, F. J. See Hazlehurst, T. H.
- Forrest, J. W., and Straat, H. W., grating spectrograph of fabricated steel, I, 102.
- Forsee, J. H., Sheits, L. M., Burbank, B., Fitzpatrick, L. J., and Burford, T. H., management of thoracic war injuries, III, 307.
See also Cole, F. L.
- Forster, H. C. See Baker, G.
- Forster, F. M., Roseman, E., and Gibbs, F. A., electroencephalogram accompanying hyperactive carotid sinus reflex and orthostatic syncope, III, 727.
- Forster, R. P., nature of glucose reabsorptive process in frog renal tubule; evidence for intermittency of glomerular function in intact animal, III, 37.
- Forster, W. S. See Whitmore, F. C.
- Forsythe, J. R. See Renshaw, R. J. F.
- Forth, R. See Saret, H. P.
- Fortsch, B. N., fundamental parameter of salt discharge for a clear river bed, I, 104.
- Fortunato, F. See Hazleton, L. W.
- Fortune, C., transfusion using indirect methods, III, 226.
- Foshinder, R. J. See Hunt, W. H.
- Fosdick, L. S., and Rapp, G. W., degradation of glucose by *Staphylococcus albus*, III, 775.
- Foshay, L., Hesselbrock, W. H., Wittenberg, H. J., and Rodenberg, A. H., vaccine prophylaxis against tularæmia in man, III, 67.
- Foss, C. E. See Granville, W. C.
- Foster, C., Dorfman, F., Henle, W., and Jones, James H., response to poliomyelitis virus (Lansing) of mice on different levels of thiamin intake, III, 358.
- Dorfman, F., Jones, James H., and Kobler, R. S., reproduction and lactation of mice on highly purified diets, III, 411.
See also Jones, James H.
- Foster, C. K. See Hodgson, H. H.
- Foster, C. L., mitotic activity of mouse parathyroid gland, III, 557. Cytology of normal parathyroid gland in relation to its secretory activity, III, 882.
- Foster, E. M. See Crossley, D. W.
- Foster, F. I. See Di Palma, J. R., and Reynolds, S. R. M.
- Foster, G. E. See Dracass, W. R.
- Foster, J. E. See Satterfield, G. H.
- Foster, J. F., and Hixon, R. M., solution viscosities of amylose components of starch, II, 221.
See also Levine, Melvin.
- Foster, J. W., and Waksman, S. A., specific effect of zinc and other heavy metals on growth and fumaric acid production by *Rhizopus*, III, 203.
- and Woodruff, H. B., improvements in cup assay for penicillin, III, 685. Determination of streptomycin, III, 686.

- Foster, L. S., Drenan, J. W., and Williston, A. F., preparation of germanium tetrachloride, GeCl_4 , I, 135.
- Foster, R. C., gonococcal bacteræmia with joint and skin manifestations [treatment with sulphanilamide], III, 195.
- Foster, R. E. See Fuson, R. C.
- Foster, W. C. See McClendon, J. F.
- Foster, W. S. See Buthod, P.
- Fothergill, L. D. See Chandler, C. A.
- Foulk, C. W., and Barkley, J. E., film formation by pure liquids, I, 304.
- Fournier, J. C. M., and Cervino, J. M., congenital myxoedema without mental retardation, III, 735.
- Cervino, J. M., and Conti, O., [pituitary] melanotropic hormone and vitiligo, III, 887.
- Fouts, P. J., vitamin-B complex in dogs: production of cirrhosis of liver, III, 823.
- Fowler, E. P., prevention of chronic otitis and deafness, III, 236. Measuring percentage capacity for hearing speech, III, 319. Control of head noises: their illusions of loudness and timbre, III, 475. Audiogram interpretation and fitting of hearing aids, III, 643. Is threshold audiogram sufficient for determining hearing capacity ?, III, 880.
- and Osmun, P. M., bone growth due to cold water in the ears, III, 318.
- See also Altmann, F.
- Fowler, M. J., value of orthoptic fusion training exercises in strabismus and related conditions, III, 102.
- Fowler, R. C. See Hodge, H. C.
- Fowler, W. A. See Becker, R. A.
- Fowler, W. M., and Barer, A. P., rate of haemoglobin regeneration in blood donors, III, 83.
- See also Barer, A. P., and Falkenstein, D.
- Fowlkes, R. W., Pepple, A., and Vaughan, E. W., cutaneous reactions due to sulphanilamide, III, 584.
- Fox, C. L., jun., production of diazotisable substance by *E. coli* during sulphonamide bacteriostasis, III, 338. Sodium salts of sulphonamide compounds: their local use in wounds, III, 418.
- Fox, D. L., and Coe, W. R., biology of sea mussel (*Mytilus californianus*). II. Nutrition, metabolism, growth, and calcium deposition, III, 895.
- and Crane, S. C., tissue pigments of cephalopod molluscs, III, 658.
- Fox, E. C. See Alexander, L. J.
- Fox, F. H., comparison of Irving and Pomeroy methods of tubal sterilisation, III, 479.
- Fox, F. W., nutritional problems amongst Bantu in South Africa, III, 494.
- Fox, I., use of creosote in mounting fleas and other arthropods, III, 453.
- Fox, I. L., and Klempner, W. W., vibratory sensibility; quantitative study of its thresholds in nervous disorders, III, 237.
- Fox, J. P., and Cabral, A. S., duration of immunity following vaccination with 17D strain of yellow fever virus, III, 530.
- Fox, J. T. See Tullidge, G. M.
- Fox, M. See Baird, K. H.
- Fox, S. A., results of glaucoma surgery, III, 385.
- Fox, S. L., hearing losses, III, 236.
- Fox, S. W., and Field, H., jun., synthesis of nicotinuric acid, II, 206.
- Field, H., jun., and McNeil, E. W., simplified photelometric determination of trigonelline, II, 212.
- Fox, T., Gold, Harry, and Leon, J., hypersensitivity to mercupurin, III, 422.
- Fox, T. T., Klements, J., and Mandel, E. E., electrocardiographic changes in old age, III, 229.
- Travell, J., and Molotsky, L., action of digitalis on conduction in syndrome of short PR interval and prolonged QRS complex, III, 512.
- Fox, W., contact angles at liquid-liquid-air interfaces, I, 13, 89.
- Foy, H., Altmann, A., Barnes, H. D., and Kondi, A., anuria; renal failure in black-water fever, incompatible transfusions and crush injuries, III, 486.
- Altmann, A., and Kondi, A., thirst at sea-sea-water enemas, III, 505.
- Foy, J. R. See Cerecedo, L. R.
- Fraenkel, G. S., carbohydrate utilisation in adult blowfly, III, 194.
- and Herford, G. V. B., physiological effects of high temperatures [on blowfly larvae], III, 413.
- Fraenkel-Conrat, H., effect of light in Van Slyke determination of amino-groups, II, 288. Activity of deoxycorticosterone acetate on oral administration, III, 322.
- Evans, H. M., Li, C. H., and Simpson, M. E., duality of pituitary gonadotropins; effects of follicle-stimulating and interstitial cell-stimulating hormone mixture on hypophysectomised rats, III, 812.
- Evans, H. M., and Simpson, M. E., effect of adrenalectomy and adrenocortical steroids on liver-arginase, III, 390.
- See also Fraenkel-Conrat, J.
- Fraenkel-Conrat, J., Fraenkel-Conrat, H., and Evans, H. M., effects of pituitary preparations on blood-non-protein-nitrogen, III, 324.
- Franz, H., and Weiss, C., calculation of absorption in highly concentrated radium preparations, I, 246.
- Frahm, H. See Hess, K.
- Frame, E. G., Russell, J. A., and Wilhelm, A. E., colorimetric determination of amino-nitrogen in blood, III, 716.
- Frampton, V. L., viscosimetric studies on tobacco mosaic virus protein, II, III, 517.
- Franca, J. See Hauptmann, H.
- France, W. G. See Blomquist, J. H.
- Franceson, A. See Wachholz, F.
- Franceschi, C. See Pirosky, I.
- Francis, A. W., paraffin hydrocarbons; correlation of physical properties, I, 178.
- Francis, E., fermentation of sugars by *Bacterium tularensis*, III, 67.
- Francis, E. T. B. See Blair, D. M.
- Francis, H. T. See Simons, J. H.
- Francis, T., Krill, C. E., Toomey, J. A., and Mack, W. N., poliomyelitis following tonsillectomy, III, 440.
- Francis, T., jun., [serological] factors conditioning resistance to epidemic influenza, III, 924. and Sulk, J. E., procedure for concentration and purification of influenza virus, III, 609.
- See also Stock, C. C.
- Francis, W. C. See Ray, F. E.
- Francis-Bœuf, C., chloride content of fluviomarine deposits, I, 27. Iron content of marine river-deposits, I, 74.
- Frantz, J., and Pringsheim, P., phosphorescence of adsorbed tryptophane and its quenching by oxygen, I, 115.
- Francke, D. E. See Cataline, E. L.
- Frank, D. E., intramuscular histaminase in hay fever, III, 587.
- Frank, H. A., and Fine, J., effect of oxygen on haemorrhagic shock, III, 787.
- See also Davis, W. A., and Starr, A.
- Frank, I. L. See Salmon, U. J.
- Frank, P., influence of an "uneven" anisotropy on path of light rays, I, 4.
- Frank, P. E. See Leipunski, O. I.
- Frank, R. L., Holley, R. W., and Wikholm, D. M., 3,2'-nicotyrine; insecticidal properties of azo-derivatives, II, 176.
- Frank, R. T., interrelation of oestrogens and nervous system, III, 478. (Estrogenic reaction in adrenal cortical carcinoma, III, 572).
- Hollander, F., Klempner, E., and Kriss, B., androgen assay by chick comb method, III, 34. Assays of known quantities of androsterone by chick method, III, 34.
- Frank, W. P., Patton, E. F., and Hamilton, P. M., treatment of whooping cough bronchopneumonia, III, 49.
- Frank-Kamenetzki, A. A., mathematical theory of thermal explosions, I, 93.
- Franke, W. H., Wieland's work on biological oxidations, III, 44.
- and Schumann, F., vegetable aldehyde-dehydrogenases, I, III, 349.
- Frankel, C. J., and Funsten, R. V., sulphonamides in compound fractures, III, 672.
- Frankel, J. S., and Brown, Jerome B., fatty acids. XII. Preparation of α - and β -linoleic acids by debromination in various solvents, II, 216.
- Brown, Jerome B., and Stoneburner, W., fatty acids. XI. Isolation of linoleic acid from vegetable oils by low-temperature crystallisation, II, 151.
- Frankel, M., and Katchalski, E., polycondensation of α -amino-acid esters; polycondensation of (I) glycine esters, (II) alanine ethyl ester, II, 55.
- Franklin, A. L., and Chaikoff, I. L., effect of sulphaniamide on conversion *in vitro* of inorganic iodine into thyroxine and di-iodotyrosine by thyroid slices, III, 735.
- Franklin, I., fusion, projection, and stereopsis, III, 316.
- Franklin, K. J. See Barclay, A. E.
- Franklin, M. T., effect on seed potatoes of formalin treatment for destruction of adherent eelworm cysts, III, 445.
- Franks, A. G., and Traub, E. F., varioliform eruption from sulphathiazole, III, 341.
- Frankston, J. E. See Albanese, A. A.
- Frantz, I. D., growth requirements of meningococcus, III, 282.
- Franz, V. K. See Keston, A. S.
- Fraps, G. S., Carlyle, E. C., and Fudge, J. F., metabolisable energy of chicken feeds, III, 252.
- See also Reiser, R., Treichler, R., and Wegner, M. I.
- Fraps, R. M., and Dury, A., occurrence of premature ovulation in fowl following administration of progesterone, III, 890.
- Hertz, R., and Sebrell, W. H., relation between ovarian function and avidin content in oviduct of hen, III, 809. Induction of avidin formation in avian oviduct by stilboestrol plus progesterone, III, 809.
- Frasche, D. F., chromite deposits of Philippine Islands, I, 211.
- Fraser, A. W., development in epidemiology of poliomyelitis, III, 776.
- Fraser, D. T., MacLean, D. L., Orr, M. D., Plummer, H. C., and Wishart, F. O., tetanus toxoid and its use for active immunisation, III, 923.
- Fraser, H. F., deficiency of calcium and vitamin-C in monkeys, III, 43.
- and Topping, N. H., mouth lesions in monkeys associated with deficient diet, III, 40.
- Fraser, R. See Albright, F.
- Frazier, J. C. W. See Brown, H. T.
- Frazier, W. A., field germination and seedling vigour of Imperial 152 lettuce seed, III, 697.
- Frazier, W. C. See Peppler, H. J., and Stern, R. M.
- Fred, M. See Turkevich, A.
- Fredenhagen, K., and Tramitz, E., changes in partial pressures of binary systems with temperature, I, 36.
- Frederick, L. D., economic and nutritional importance of bovine hepatic disturbances, III, 893.
- Fredga, A., molecular compound of optically active di-(α -carboxyethyl) disulphide and $\alpha\beta$ -dithiolidipic acid, I, 153. Configurative relationship between optically active lactic and α -thiolpropionic acids, I, 154. Configurative relationship between optically active malic and thiamic acid, I, 154. Configurative relationship between optically active methyl- and thiol-succinic acids, II, 251.
- and Grimsell, E., optically active nitro- and amino-mandelic acids. I. and II., II, 162, 191.
- and Martensson, O., derivatives of β -thiol-isobutyric acid, II, 352.

- Fredga, A., and Tenow, M., resolution of α -xanthogeno- n -butyric acid into optically active antipodes, II, 352.
- Free, A. H., simple chamber for estimating serum-pH with glass electrode, III, 714.
- Bowman, D. E., and Davies, D. F., effect of continued sulphamilamide ingestion on acid-base equilibrium of dog, III, 907.
- Davies, D. F., and Myers, V. C., effect of sulphamilamide accompanied by acid or alkali on acid-base equilibrium of the dog; possible influence of carbonic anhydrase, III, 337.
- and Leonards, J. R., effect of vitamin-B deficiency on intestinal absorption of galactose in rats, III, 407. Serum-phosphorus changes during absorption and metabolism of glucose, galactose, and xylose, III, 828.
- and Myers, V. C., determination of amylase, proteinase, and lipase in duodenal contents, III, 892.
- See also Leonards, J. R., and Myers, V. C.
- Freed, S., spectra of ions in fields of various symmetry in crystals and solutions, I, 142.
- Jassey, A. H., and Schultz, M. L., high centrifugal fields and radioactive decay, I, 111.
- and Sugarman, N., magnetic susceptibilities of metals dissolved in liquid ammonia, I, 301.
- Freed, S. C., oestrogens and androgens, III, 649.
- Eisin, W. M., and Greenhill, J. P., assay in human female of synthetic oestrogen 118B, III, 30. Therapeutic efficiency of diethylstilboestrol esters, III, 392. Oral effectiveness of oestrone sulphate in women, III, 648.
- See also Greenhill, J. P., and Shleser, I. H.
- Freedlander, B. L., effect of benzophenone and allied compounds on human tubercle bacilli *in vitro*, III, 343.
- Freedman, P., Levine, S., and Solis-Cohen, L., haemothorax in blood dyscrasias, III, 627.
- Freedman, W. B., and Walker, R., size, development, and innervation of labyrinth sensory areas in *Squalus*, III, 320.
- Freeman, G., lack of immunity to latent virus, III, 695.
- Freeman, G. G., preparation and properties of a specific polysaccharide from *Bact. typhosum* Ty₂, III, 924.
- Freeman, G. O., spectrographic data concerning presence of less common elements in rocks, I, 188.
- Freeman, H., vasodilatation in normal and schizophrenic subjects during cyclopropane anaesthesia, III, 100.
- Loonet, J. M., and Hoskins, R. G., spontaneous variability of oral glucose tolerance, III, 131.
- and Rodnick, E. H., autonomic and respiratory responses of schizophrenic and normal subjects to changes of intra-pulmonary atmosphere, III, 95. Effect of rotation on postural steadiness in normal and in schizophrenic subjects, III, 724.
- Freeman, H. E., zinc dermatitis, III, 443.
- Freeman, M. E., heat capacity and bound water in starch suspensions, I, 180.
- Freeman, Newell E., separation of iodides, bromides, and chlorides, I, 136.
- Freeman, Norman E., and Schechter, A. E., no demonstrable substance causing increased capillary permeability in lymph from an injured area, III, 305.
- Freeman, S., and Grodins, F. S., aspects of liver, III, 744.
- and Ivy, A. C., influence of antacids on iron retention by anaemic rat, III, 862.
- Freeman, V., diphtheria immunisation in Islington, III, 435.
- Freeman, W., and Watts, J. W., frontal lobes and consciousness of self, III, 98.
- See also Wien, R.
- Freeze, A. C., mineralogy of Pinchi lake, I, 242.
- Frei, W., action of sulphathiazole on bacterial respiration, III, 692.
- Freiberg, J. See Abramson, D. I.
- Freid, J. R., and Goldberg, H., Röntgen therapy in thyrotoxicosis, III, 107.
- Freidina, R. C., and Nesmejanov, A. N., addition of iodine trichloride to acetylene and structure of β -chlorovinyliodochloride, II, 77.
- Freyfelder, M. See Raiziss, G. W.
- Freiman, I. S. See Rabiner, A. M.
- Freire, S. A., and Magalhães, B. F., myocardium in avitaminosis-E in guinea-pig, III, 718.
- Fremont-Smith, F., rôle of [respiratory] elongation and contraction of inferior vena cava in return of blood to heart, III, 461.
- French, B. See Hepler, J. R.
- French, C. E., interrelation of calcium and fat utilisation in growing albino rat, III, 193. and Elliott, R. F., interrelation of calcium and fat utilisation, III, 496.
- See also Voris, LeR.
- French, D., configuration of starch and its crystalline degradation products, I, 177.
- See also Bates, F. L., and Rundle, R. E.
- French, H. S., Magee, M. Z., and Sheffield, E., configuration of organic co-ordination compounds of nickel, with reference to nickel bisformylcamphor-ethylenediamine, I, 5.
- French, M. H., blood-protein changes resulting from intravenous method of hyperimmunisation against rinderpest virus, III, 161.
- Frenkel, Y. I., and Gurvich, A. G., physico-chemical basis of mitogenetic radiation, I, 260.
- Freston, J. M., and Loughlin, W. C., vitamin deficiencies in diabetic children, III, 574.
- Freud, P., and Slobody, L. B., synphalangism; a familial malformation, III, 857.
- Freudenberg, E., human milk for determination of prothrombin time, III, 85. Severe vomiting in small infants, III, 175.
- Freudenberg, K., and Adam, K., lignin. XLIII. Distillation of lignin in hydrogen, II, 402. and Boppel, H., position of branching of the starch chain, II, 256.
- Dumpert, G., and Gudjons, H., determination of free and bound hexuronic acid, II, 403.
- Eich, H., Knoevenagel, C., and Westphal, W., attempted syntheses of glucosides and disaccharides, II, 255.
- and Hüll, G., 2:6-dimethylglucose, II, 356.
- and Jakob, W., glucosidation of 2:3:6-trimethylglucose, II, 294.
- Lautsch, W., Piazzolo, G., and Scheffer, A., lignin. XLII. Pressure hydrogenation of lignin and lignin-containing waste liquors of the pine, II, 401.
- and Plankenhorn, E., lignin. L. Acetic acid-lignin, II, 19. Partly-methylated glucose, II, 254.
- and Plotz, T., lignin. XXXVIII. Determination of lignin, II, 316.
- and Richtzenhain, H., lignin. LIII. Constitution of dehydroisoegenol and its significance in chemistry of lignin, II, 139.
- Freudenberg, R., curability of mental diseases by "shock" treatment, III, 234.
- Freund, E., pathogenesis of spondylitis ankylopoietica, III, 705.
- See also Spath, E.
- Freund, F. See Finzi, N. S.
- Freund, H., prostatitis—cause of acute or recurrent abdominal pain, III, 175.
- Freund, H. A., Steiner, G., Leichtentritt, B., and Price, A. E., peripheral nerves in chronic atrophic arthritis, III, 14, 382.
- Frevel, L. K., tabulated diffraction data for cubic isomorphs, I, 53.
- and Rinn, H. W., niobium foil as a filter for Mo K β radiation, I, 71.
- Frey, C. N. See Atkin, L., and Light, R. F.
- Frey, F., plate holder for double exposures with Siemens ultramicroscope, I, 101.
- Frey-Wyssling, A., electron-microscopy of cellulose fibres, I, 126. Calculation of degree of orientation of gels from refractometric measurements, I, 226. Physiology of vegetable glucosides, III, 137.
- Frey-Wyssling, A., and Speich, H., permeability of cellulose fibres, I, 200.
- Freyberg, R. H., vitamin and endocrine preparations in arthritis, III, 406.
- See also Block, W. D.
- Freyermuth, H. B. See Raiford, L. C.
- Friant, M., cerebral morphology of *Potamothenium valentonii*, III, 77.
- Frick, W. D. See Kuzell, W. C.
- Fricke, H., chemical properties of X-ray-activated molecules with reference to the water molecule, I, 5.
- Fricke, R., surface energy and heat of sublimation of solids, I, 86. Active substances. LV. Physical inhomogeneity of active solids, I, 96. Determination of X-ray amorphous substances in presence of crystalline materials, I, 239.
- and Dönges, E., orange-red and grey-black antimony trisulphide, I, 129.
- Lohrmann, O., and Schröder, W., cellulose acetate capillaries for Debye-Scherrer photographs, I, 320.
- and Meyer, F. R., easily-constructed electric[ally-heated tube] furnace of glass for temperatures up to 600°, I, 25.
- and Müller, Hermann, active substances. LVI. Allotropic change of finely divided metals on carriers, I, 55.
- and Weitbrecht, W., equilibrium of carbon dioxide and carbon monoxide in contact with nickel and nickel oxide or with nickel, γ -alumina, and nickel aluminate, and its modification by physical state of solid reactants, I, 62.
- Fricker, L. See Kenyon, A. T.
- Fricker, R. See Knowlton, K.
- Frid, B. I. See Alimarin, I. P.
- Fridberg, L. See Hurwitz, M.
- Fridenberg, P., vision in war-time, III, 309.
- Fried, J. See Blout, E. R., and Chen, K. K.
- Friedberg, C. K., theory of pathogenesis of coarctation of aorta, III, 549.
- Friedberg, L., Katz, L. N., and Steinitz, F. S., effect of drugs on pulmonary and systemic arterial pressures in trained unanaesthetised dog; renin, angiotensin, adrenaline, pitressin, p paredrine, digitalis, acetylcholine, papaverine, histamine, amyl nitrite, and aminophyllin, III, 585.
- Friedell, H. L. See Treadwell, A. de G.
- Friedell, M. T., Shaar, C. M., and Walters, W., gastric resection and gastric acidity, III, 482.
- Friedemann, A., insulin shock therapy, III, 638.
- Friedemann, T. E., and Haugen, G. E., pyruvic acid. II. Determination of keto-acids in blood and urine, III, 616.
- and Kmiecik, T. C., metabolism of pathogenic clostridia in complex carbohydrate-rich culture media, III, 603. Determination of thiamin in blood, III, 866.
- See also Werch, S. C.
- Friedemann, U., permeability of blood-brain barrier to neurotropic viruses, III, 728.
- and Hollander, A., modification of Thunberg method for determination of dehydrogenases in tissues, III, 350.
- Frieden, E. H., Dunn, M. S., and Coryell, C. D., quantitative investigations of amino-acids and peptides. X. Equilibria between amino-acids and formaldehyde; leucine and *N*-methyl-leucine. XI. Equilibria between amino-acids and formaldehyde; glutamic acid. XIII. Equilibria between histidine and formaldehyde. XIV. Equilibria between amino-acids and formaldehyde; arginine and lysine, I, 181, 201.
- Friedenwald, J. S., Buschke, W., and Michel, H. O., rôle of ascorbic acid (vitamin-C) in secretion of intraocular fluid, III, 731.
- See also Herrmann, H.
- Friedewald, W. F., cell state as affecting susceptibility to a virus; enhanced effectiveness of rabbit papilloma virus on hyperplastic epidermis, III, 490.
- and Kidd, J. G., distinct types of antibodies in blood of rabbits carrying transplanted V2 carcinoma, III, 570.

- Friedewald, W. F., and Pickels, E. G., size of infective particle and haemagglutinin of influenza virus as determined by centrifugal analysis, III, 852.
See also Kidd, J. G.
- Friedfeld, L. See Brown, G.
- Friedlander, G., and Wu, C. S., radioactive isotopes of mercury, I, 190.
See also Erf, L. A.
- Friedlander, S. See Lyons, W. R.
- Friedman, A. J., and Cohen, A. E., ephedrine-like drug in hay fever and asthma, III, 909.
- Friedman, B., entoptic phenomena, III, 19. Unusual disciform retinal lesion with heterotopia maculae, III, 167. Entoptic methods in clinical investigations, III, 471.
- Jarman, J., and Marrus, J., effect of therapeutic agents and renal implantations in experimental hypertension, III, 550.
- Marrus, J., Oppenheimer, B. S., and Soloway, S., quinones as blood pressure reducing agents in hypertensive rats, III, 344.
- Friedman, H., and Christenson, A. L., exposure meter for X-ray radiography, I, 318.
- Friedman, H. J., guinea-pig anaphylaxis with house dust antigen, III, 531.
- Friedman, H. S. See Brighton, G. R.
- Friedman, L., and Ray, B. R., diffusion velocity of ovalbumin in relation to its mol. wt., I, 127.
- Friedman, M., and Kaplan, A., site of renin formation in kidney; renin content of mammalian kidney following specific necrosis of proximal convoluted tubular epithelium, III, 486.
- Kaplan, A., and Kruger, H. E., inability of purified or crude kidney extract (renin) to reduce blood pressures of hypertensive dogs, III, 720.
- See also Kaplan, A.
- Friedman, M. H. F., gastric secretion in newborn, III, 123.
- and Podolsky, H. M., prolactin and healing of experimental peptic ulcer, III, 391.
- Friedman, N. B., effects of radiation on gastrointestinal tract, including salivary glands, liver, and pancreas, III, 199.
- Friedman, S. See Rosin, S.
- Friedrich-Freksa, H. See Butenandt, A.
- Friend, J. N., and Hargreaves, W. D., viscosity at the b.p.: the rheochor, I, 301.
- Fries, B. A. See Schachner, H.
- Fries, E. F. B., white pigmentary effectors in killifishes, III, 80. Pituitary and nervous control of chromatic responses in *Fundulus*, III, 324. Control of fish chromatophores. I. and II., III, 658.
- Friese, H., and Lüdecke, W., lignin. XIII. Cleavage of wood by nitration, II, 402.
- Frisch, A. W., autopsy studies in type III and Friedlaender's pneumonia, III, 691. Autopsy studies in pneumococcal pneumonia, III, 691.
- Barrett, C. D., jun., Pidgeon, B. E., and Tripp, J. T., specific polysaccharide content of pneumonic lungs, III, 605.
- Myers, G. B., and Price, A. E., pneumococcal pneumonia; prognostic significance of the number of pneumococci in sputum in relation to therapy, bacteræmia, type, leucocyte count, duration of disease, age, and degree of involvement; selection and control of serum and chemotherapy by sputum examination, III, 690, 922. Type VIII pneumococcus: development of sulphadiazine resistance, transmission by cross infection, and persistence in carriers, III, 691. Type III pneumonia: prognostic significance of reticulation in relation to number of pneumococci in sputum, therapy, bacteræmia, leucocyte count, age, and degree of involvement, III, 691. Significance of gross character of sputum in prognosis of pneumococcal pneumonia, III, 922.
- See also Tripp, J. T.
- Frisch, K. von, beckoning dances of bees and their cause, III, 38.
- Fritsch, H. See Beyer, H.
- Frobisher, M., jun., and Mauss, E. A., failure to demonstrate synergism between diphtheria toxin and extracts of *C. diphtheriae* gravis, III, 603. Antigenicity of diphtheria toxoid in chicks, mice, and rats, III, 603.
- and Parsons, E. I., resistance against toxicogenic *Corynebacterium diphtheriae* in rabbits following injections of non-toxicogenic diphtheria bacilli, III, 435.
- Froehlich, M. See Menzel, W.
- Froehner, M. See Flagg, J.
- Froelich, H. C., determination of sulphur in acid-soluble sulphides, I, 99. Mercury vapour made visible, I, 104.
- and Fonda, G. R., exaggerated phosphorescence of zinc silicate phosphors, I, 81.
- Frohring, W. O. See Aring, C. D.
- Frolova, N. V., dolomite flour in rocks of Middle Cambrian of Lena-Baikal watershed, I, 106.
- Frolova, S. L., fine chromosome structure after enzyme action; (nuclease and pepsin), III, 300.
- Fromageot, C., and Desnuelle, P., anaerobic decomposition of homocysteine by biological systems; existence of homocysteine desulphurase, III, 201.
- Fromm, G. See Grube, G.
- Frommel, E., Bischoff, A., Dobrick, R., and Piquet, J., intestinal absorption of insulin, III, 645.
- and Wolfermann, A., effect of calcium galactogluconate on excitability of medulla and spinal cord, III, 795.
- Frondel, C., bismuth-ochre, bismutite, bismuto-sphaerite, basobismutite, bismite, and bismoclite, I, 242. Mineralogy of calcium phosphates in insular phosphate rock, I, 244.
- Newhouse, W. H., and Jarrell, R. F., spatial distribution of minor elements in single crystals, I, 169.
- Front, J. S., and Kirsner, J. B., determination of aluminium in biological material with Evelyn photo-electric colorimeter, III, 152.
- Frontali, G., pellagra, III, 189.
- Frost, A. A., adsorption potentials at gas-solid interfaces, I, 13.
- Frost, A. V., catalytic action of activated silica-alumina; action of activated clay on *n*-octyl alcohol and cyclohexanone, II, 350.
- Frost, D. V., pantothenic acid; optical rotation as a measure of stability, II, 287. Water-soluble riboflavin-boron complex, III, 189.
- Frost, H. F., *o*-dianisidine as internal indicator for zinc-ferrocyanide titrations, I, 100. Acriflavine as internal indicator for sulphamido-nitrite titrations, II, 148.
- Frost, W. E. See Went, A. E. J.
- Froth, K. E., tumour embolism of common femoral artery treated by embolectomy and heparin, III, 463.
- Frumkin, A. See Burschtein, R., Kolotirkin, J., and Levitsch, V. G.
- Frumkin, S. See Ford, N.
- Frush, H. L. See Isbell, H. S.
- Fruton, J. S., synthesis of peptides of *l*-serine, II, 122.
- and Bergmann, M., multiple specificity of chymotrypsin, III, 57. See also Bergmann, M.
- Fry, D. L. See Albers, V. M.
- Fryberg, G. C. See Simons, J. H.
- Fryczynski, M. See Gerber, I. E.
- Frykman, H. M., quantitative study of paraventricular nucleus and its alteration in hypophysectomy, III, 15.
- Fuchs, C. F. See Kharasch, M. S.
- Fuchs, H. See Hieber, W.
- Fuchs, H. G., and Reichstein, T., constituents of adrenal cortex and related substances. LIX. Δ^4 -Pregnen-21-ol-3:12:20-trione and $\Delta^{12(\beta)}$:21-diol-3:20-dione, II, 200.
- Fuchs, K., and Peng, H. W., crystal theory of metals; calculation of elastic constants, I, 32.
- Fuchs, M., statistical evaluation of 103 patients with duodenal and 34 with gastric ulcer, III, 176.
- Fuchs, O., superheated steam as a solvent, I, 225.
- Fuchs, P., systematic indirect analysis. II. Further development to indirect volumetric analysis, I, 283. Indirect analysis of organic mixtures by combustion with application to plant and animal physiological chemical problems, III, 448.
- Fuchs, W., thermodynamics of humic acid reactions; the systems humic acid-calcium acetate-water, and methoxyhumic acid-calcium acetate-water, I, 308.
- Fucks, W., and Bongartz, H., discharge-canal section and discharge produced by laterally-restricted irradiation, I, 269.
- and Kettel, F., sparking in hydrogen, I, 246.
- Fudge, J. F. See Fraps, G. S.
- Furst, A. See Ruzicka, L.
- Fuerstner, P. G., stilboestrol, III, 739.
- Furth, R., microphotometer, I, 71.
- Fugassi, P. See Warrick, E.
- Fugitt, C. H. See Steinhardt, J.
- Fugo, N. W., and Gross, E. G., anterior pituitary-stimulating action of yohimbine, III, 323.
- Fugitt, R. E., Stallcup, W. D., and Hawkins, J. E., physical properties of terpenes. I. System α - and β -pinene, II, 168.
- Fuhr, I., and Steenbock, H., effect of dietary calcium, phosphorus, and vitamin-D. I. Effect of phytic acid on availability of iron. II. Effect of vitamin-D on body-iron and haemoglobin production. III. Relation of rickets to anaemia, III, 335.
- Fuhrman, F. A., and Field, J., jun., action of diphenyloxazolidinedione on brain respiration at varied temperature levels, III, 590. Relationship between chemical structure and inhibitory action of barbiturates on rat brain respiration *in vitro*, III, 676.
- See also Van Wagendonk, W. J.
- Fuhrmann, F., apparatus for fluid bacterial cultures, III, 276.
- Fujii, K., and Matsukawa, T., saponins and sterols. VIII. Saponin of *Dioscorea tokoro*, Makino, II, 14.
- Fujioka, Y., molecular spectra of deuterium-hydrogen in ultra-violet region and isotope effect in normal state of deuterium molecule, I, 48.
- Fujise, S., and Tatsuta, H., improved syntheses of 7-hydroxy- and 5,7-dihydroxy-flavanone, II, 380.
- Fujita, Y., ionisation in stellar atmospheres composed of *n* kinds of atoms, I, 1.
- Fuller, C. S. See Baker, W. O.
- Fuller, H. K. See Salisbury, G. W.
- Fuller, H. W., and Norman, A. G., soil cytophagae, III, 918.
- Fuller, J. E. See Esselen, W. B., jun.
- Fuller, W. H., and Vandecaveye, S. C., isolation and identification of *Rhizobia* bacteriophage, III, 61.
- Fulterton, H. W., macrocytic anaemia of pregnancy and puerperium, III, 370.
- Fulmer, E. I., Underkofer, L. A., and Bantz, A. C., production of acetyl methylcarbinol by action of *Acetobacter suboxydans* on β -butylene glycol, III, 848.
- See also Underkofer, L. A.
- Fulton, C. C., relation of alkaloidal to inorganic chemistry; bromoauric acid as reagent for inorganic microcrystal tests, I, 42.
- Fulton, F., staphylococcal enterotoxin—with reference to kitten test, III, 606.
- Fulton, J. D., attempts to prepare in fowls a strain of *Plasmodium gallinaceum* resistant to plasmoquine, III, 51. Course of *Plasmodium relictum* infection in canaries and treatment of bird and monkey malaria with synthetic bases, III, 419. Toxicity and therapeutic action of aromatic diamidines after exposure to light, III, 908. and Yorke, W., stability of drug-resistance in trypanosomes, III, 50. Drug-resistance in *Babesia* infections, III, 50. Plasmoquine resistance in *Plasmodium knowlesi*, III, 51, 908. Increased toxicity of old solutions of stilbamidine, III, 265. Trypanocidal action of additional aromatic diamidines, III, 266.

- Fulton, J. D. See also Christophers, S. R., Collier, H. O. J., and Devine, J.
- Fulton, J. F. See Kennard, M. A.
- Funakubo, E., applications of camphor oil. II. *cis*- and *trans*-*iso*Chavibetol alkyl ethers, III, 363.
- Funk, H., determination of zinc and cadmium by precipitation with sodium anthranilate, I, 42.
- Funsten, R. V. See Frankel, C. J.
- Fuoss, R. M., system water-*n*-butyl alcohol-toluene at 30°, I, 154.
- and Mead, D. J., osmotic pressures of polyvinyl chloride solutions by a dynamic method, I, 180.
- See also Mead, D. J.
- Furchtgott, R. F., shape of mammalian red cells, III, 81.
- and Ponder, E., shape of mammalian blood cells, III, 81.
- Furgason, C. M., and Moore, J. W., photochemical reaction of hydrogen and chlorine; lecture demonstration, I, 321.
- See also Moore, J. W.
- Furger, H. P. See Erlenmeyer, H.
- Furlong, J. J., and Warren, M. K., gastric lavage in control of treatment of pulmonary tuberculosis, III, 214.
- Furst, N. J. See Finkler, R. S.
- Furstenberg, A. C., local sulphonamide therapy in otolaryngology, III, 387.
- Furth, J. See Angevine, D. M., Burk, D., Hall, V. E., McEndy, D. P., and Smith, J. J.
- Fusion, R. C., Best, C. E., and Denton, J. J., highly hindered stilbenes, II, 184.
- Bottorff, E. M., Foster, R. E., and Speck, S. B., *p*-acylation of polyalkylbenzophenones by aryl 2:4:6-trialkylbenzoates, II, 94.
- Byers, D. J., and Rachlin, A. I., enediols. XI. Vinyllogues of ethylene and acetylene glycols, II, 135.
- Byers, D. J., Rachlin, A. I., and Southwick, P. L., vinyl alcohols. IV. Oxidative cleavage, II, 160.
- and Foster, R. E., vinyl alcohols. VI. 1:4-Dehydrogenation, II, 264.
- Gray, H. W., McKeever, C. H., and Rabjohn, N., quinoxaline formation and ortho-effect, II, 341.
- Hully, H. H., McPherson, J. F., and Spangler, F. W., action of alkaline reagents on $\alpha\beta$ -dihalogeno- $\alpha\beta$ -dibenzoylbutanes, II, 130.
- Lindsey, R. V., jun., and Welldon, P. B., vinyl alcohols. V. Isomeric bromo- $\alpha\beta$ -dimesityl- Δ^2 -propen- α -ols, II, 160.
- and McKusick, B. C., *p*-alkylation of benzoyldurene by Grignard reagent, II, 164.
- and Robertson, J. A., addition of magnesium methyl iodide to mesityl *tert*-butyl diketone, II, 94.
- and Rowland, S. P., $\beta\beta$ -dimesitylvinyl alcohol, II, 261.
- and Scott, S. L., enediols. X. An amino-stilbenediol, II, 35.
- and Soper, Q. F., vinyl alcohols. VII. Hindrance at the β -carbon atom, II, 264.
- and Speck, S. B., *ortho*-alkylation and -arylation of mesityl aryl ketones, II, 65.
- Futch, C. E., Rosenvold, L. K., and Stewart, C. E., effect of sodium sulphathiazole on nasal mucosa, III, 265.
- Fuzikawa, F. See Asahina, Y.
- G.**
- Gabarro, P., grafting, III, 657.
- Gabler, F., magnetic rotation in doubly-refracting media, I, 219. Magnetic double refraction in alkali metal vapours, I, 220. Use of a rotation-dispersion stationary filter, I, 265.
- and Tomiser, J., forbidden transitions in Zeeman effect with alkali metals, I, 1.
- Gabriele, D. J., effect of kidney position on renal blood flow and function, III, 36.
- Gaby, W. L. See Roberts, E. C., and Van Bruggen, J. T.
- Gaddis, S., precipitant for group II ions, I, 100.
- Apparatus for semi-micro-evaporations, I, 319.
- Gaddum, J. H., design of toxicity tests involving comparison with a standard preparation, III, 765.
- Gaebler, O. H., relationship of extinction to wave-length in turbid sera and other suspensions, III, 856.
- and Strohmaier, R. E., jun., blood-iodine in dogs receiving thyroxine or phloridzin, III, 375.
- Ganicke, K. See Ziegler, K.
- Gärtner, K., sulphonamide action as shown by fluorescence- and electron-microscopy, III, 846.
- Gaessler, W. G. See Haber, E. S.
- Gaffron, H., effect of specific poisons on photoreduction with hydrogen in green algae, III, 217. Reduction of carbon dioxide coupled with oxy-hydrogen reaction in algae, III, 218.
- and Rubin, J., fermentative and photochemical production of hydrogen in algae, III, 218.
- See also Rieke, F. F.
- Gagos, K. A. See Germann, F. E. E.
- Gahler, A. See West, L. E.
- Gaihami, P., sex hormone treatment of vulvovaginitis and dystrophic cervicitis, III, 811.
- Gail, I. A., case of hyperactive carotid sinus reflex of vagal type, III, 459.
- Gaines, W. L., live weight of cow at various stages of lactation in relation to milk-energy yield, III, 174.
- Davis, H. P., and Morgan, R. F., estimation of initial live weight at each lactation of dairy cows, III, 174.
- Galak, V. M., universal apparatus for gas evolution, I, 240.
- Galambos, R. G., and Davis, H., response of single auditory nerve fibres to acoustic stimulation, III, 387.
- Galbraith, H. See Hummel, F. C., Teague, D. M., and Williams, H. H.
- Galbraith, T. W. See Kelso, R. E.
- Galbreath, W. R., and Hull, E., sulphonamide therapy of bacterial endocarditis, III, 672.
- Gales, J. W. See Slaughter, D.
- Galimberti, P. [with Ponzini, S.], preparation of ethyl ethylmalonate and Δ^1 -cyclohexenylmalonate from corresponding oxaloacetates, II, 134.
- Galinovsky, F. See Späth, E.
- Galkin, A. A. See Lazarev, B. G.
- Gall, L. S. See Weil, A. J.
- Gallagher, C. D. See Gallagher, J. R.
- Gallagher, F. W., Danis, P. G., and Jones, L. R., Rh factor in relation to jaundice of newborn infant (erythroblastosis foetalis), III, 622.
- Gallagher, J. R., Gallagher, C. D., and Sloane, A. E., critical evaluation of pseudo-isochromatic plates and suggestions for testing colour vision, III, 314. Testing colour vision with pseudoisochromatic plates, III, 472.
- Gallagher, T. F., and Long, W. P., partial oxidation of cholic acid, II, 137.
- Gallais, F., ultra-violet absorption spectra of solid cyanides, I, 49.
- Gallardo, E., and Thompson, R., sulphonamide content of aqueous humour following conjunctival application of drug powders, III, 103.
- Galli-Mainini, C., exophthalmometric measurements in patients with thyroid diseases, III, 107. Effect of serum of patients with Graves' disease, myxedema, and acromegaly on oxygen consumption of guinea-pig thyroid, III, 169.
- Galloway, I. See Lisa, J. R.
- Gallup, W. D. See Kuhlman, A. H.
- Galtsoff, P. S., copper content of sea-water, I, 264.
- Galvao, P. E., and Pereira, J., jun., blood pressure in dogs after destruction of central nervous system, III, 718. Cardio-vascular centres in dogs after destruction of the central nervous system, III, 718. Effect of massive doses of strichnine in animals whose central nervous system has been destroyed, III, 765.
- Gamburg, D. See Kritschevski, I. R.
- Gamertsfelder, G. R., and Goldhaber, M., diffusion length of carbon neutrons in water, I, 111.
- Gammage, F. V., night blindness induced, III, 315.
- Gamow, G., origin of chemical elements, I, 79.
- Ganapathi, K., Deliwala, C. V., and Shirasat, M. V., chemotherapy of bacterial infections. VII. Synthesis of sulphanilamide derivatives of pyrimidine group. VIII. Synthesis of carboxylic acid derivatives of 2-sulphanilamidothiazole, II, 106, 110.
- See also Alamelia, (Miss) B. S.
- Gandini, A., reactivity of terpene nuclei; halogenation of dihydroterpenes, II, 42. Catalytic reduction of *N*-phenylnitrophenyl-nitrones, II, 134. Decomposition of pernitroso-camphor, II, 137. Decomposition of pernitrosoketones. II. Pernitrosophenone and pernitrosomethone, II, 168.
- Ganesan, A. S., open-arc method of exciting the Balmer series, I, 141.
- Ganguli, S. K. See Bose, A. N.
- Ganguly, N. C., unambiguous synthesis of camphor. I. Synthesis of camphononic acid, II, 306.
- Ganguly, P. B. See Gyani, B. P.
- Gannon, G. P. See Guy, W. H.
- Gantmacher, A., and Medvedev, S., change in Raman spectra of chloroprene and isoprene in the polymerisation process, I, 50.
- Gantt, W. H. See Brogden, W. J.
- Gapon, E. N., ion exchange between solid and liquid phases. II. Differential coefficients of sorption of two ions, I, 124.
- See also Ivanov, A. N.
- Gaposchkin, S. See Payne-Gaposchkin, (Miss) C.
- Garan, V. F. See Schportenko, P. I.
- Garb, J. See Good, C. K.
- Garb, S. See Gilligan, D. R.
- Garcia Iglesias, S. See Giral, F.
- Gardner, A. See Maletz, L.
- Gardner, E., surgical anatomy of external carotid plexus, III, 365.
- Gardner, E. L., incidence of osteoporosis. I. and II, III, 2.
- Gardner, J. See Martzloff, K. H.
- Gardner, J. D. See Moore, G. B., jun.
- Gardner, L. U., and Delahant, A. B., action of finely-divided magnesium on lungs, III, 347.
- and McCrum, D. S., effects of daily exposures to arc welding fumes and gases on normal and tuberculous animals, III, 766.
- and Redlin, A. J., significance of chemical examination in diagnosis of silicosis, III, 270.
- See also Steenken, W., jun.
- Gardner, R. E., and Hyde, R. R., transformation of rabbit fibroma virus (Shope) into infectious myxomatosis (Sanarelli), III, 39.
- See also Bailey, G. H.
- Gardner, T. S., carbohydrate formation in nature, III, 534.
- and Purves, C. B., formation of anhydro-structures by alkaline deacetylation of a partly substituted cellulose acetate *p*-toluenesulphonate, II, 222.
- See also Wolfrom, M. L.
- Gardner, W. H. See Davis, A. L.
- Gardner, W. U., mammary growth in male mice fed desiccated thyroid, III, 22. Persistence and growth of spontaneous mammary tumours and hyperplastic nodules in hypophysectomised mice, III, 127. Testicular tumours in mice of several strains receiving triphenylethylene, III, 818.
- and White, A., mammary growth in hypophysectomised male mice receiving oestrogen and prolactin, III, 650.

- Gardner, W. U., See also Collins, V. J.
 Garey, J. C. See King, J. W.
 Gargill, S. L. See Greenberg, B. E.
 Garland, Y., convulsions under trichloroethylene anaesthesia, III, 512.
 Garlock, J. R., surgical treatment of carcinoma of thoracic oesophagus, III, 185.
 Garner, E. V. See Bunn, C. W.
 Garner, H. R. See Allee, W. C., and Finkel, A. J.
 Garner, J. See Cook, A. H.
 Garner, W. W. See Allard, H. A.
 Garnjobst, L. See Tatum, E. L.
 Garofalo, M. See Gold, L. H., and Tovell, R. M.
 Garol, H. W. See Bailey, P.
 Garrels, R. M., effect of electrolytes on solubility of metal sulphides in vein solutions, I, 244.
 See also Behre, C. H., jun.
 Garrett, A. B., and Lemlet, J., solubility relations of mercuric oxide in aqueous solutions of hydrogen chloride, I, 59.
 Noble, M. V., Kiefer, G., and Bryant, R., lead chloride-ethylene glycol-water system at 25°, I, 151.
 Noble, M. V., and Miller, S., chemistry of group I. Silver, mercury, and lead, I, 162.
 See also Black, O. D.
 Garrett, O. F. See Dunn, H. O.
 Garrison, E. R., effect of acidity and temperature on growth of *Oospora lactis* cultures, III, 523.
 Garrison, W. M., and Burton, M., photolysis of propaldehyde, I, 133.
 Garrison, W. S. See Sanders, G. B.
 Garrow, A., and Loewenstein, A., monocular hydrophthalmia, III, 802.
 Garry, (Mlle.) M., action of organomagnesium compounds on dianilins of $\alpha\beta$ -diketones; cyclisation of α -anilinoketones obtained, II, 37.
 Garry, R. C., and Smith, I. A., absorption of sodium *dl*-mandelate from intestine of cats, III, 675.
 Gartner, S., anomalous processes of ciliary type on posterior surface of iris, III, 18. Displacement of ciliary processes to posterior surface of iris, III, 18.
 Garver, W. P. See Beard, E. E.
 Garvin, C. F., cardiac cirrhosis [of liver], III, 485. Tricuspid stenosis, III, 867. Gallop rhythm: incidence and influence of age, race, and sex, III, 867.
 Garwood, F., application of maximum likelihood to dosage-mortality curves, III, 269.
 Gasche, P. See Miescher, K.
 Gaskell, H. S. See Alpers, B. J.
 Gassman, A. G., Hochanadel, C. J., and Hartman, R. J., deuterium exchange in the system hydrogen deuteride-methyl alcohol, I, 204.
 Gaston, E. A., cystadenoma of ovary incorporated between leaves of mesosigmoid, III, 333.
 Gatenby, J. B., and Collery, L., middle-piece beads in *Cavia* spermatozoon, III, 327. Function of mammalian epididymis, III, 785.
 Gates, J. W., jun. See Allen, C. F. H.
 Gates, M. D., and Misani, F., condensation of β -cyclogeraniol with leucoisonaphthazarin, II, 15.
 Gates, O., effects of radiation on bone, cartilage, and teeth, III, 914.
 Warren, S., and Warvi, W. N., tumours of sweat glands, III, 899.
 Gates, R. M. See Emmons, R. C.
 Gatewood, L. C., treatment of intestinal disorders in the military forces, III, 175.
 Gatterer, A., thermal excitation of pure band-emission, I, 191.
 Gauch, H. G., and Wadleigh, C. H., influence of saline substances on absorption of nutrient by bean plant, III, 612. Assimilation in bean plants of nitrogen from saline solutions, III, 613.
 Gauld, A. G. See Rock, J.
 Gault, E. S. See Sano, M. E.
 Gaunt, R., inability of deoxycorticosterone to maintain lactation, III, 558.
 Gaunt, R., EverSOLE, W. J., and Kendall, E. C., influence of steroid hormones on lactation in adrenalectomised rats, III, 24.
 See also EverSOLE, W. J., and Schweizer, M.
 Gaunt, W. E., and Wright, G. P., comparison of distribution between various organs of arsenicated serum-proteins and colloidal thorium dioxide (thorotrust) following their intravenous injection, III, 421.
 Gauze, G. F., and Alpatov, V. V., antimalarial properties of optically active acridines, III, 343.
 Gavankar, (Miss) K. D. See Bhat, R. V.
 Gavarron, F. F. See Castaneda, M.
 Gavat, I. G. See Neznitescu, C. D.
 Gavett, E. See Hodge, H. C.
 Gavins, G., Patterson, J. M., and McHenry, E. W., lipotropic effects of choline, inositol, and lipocaine in rats, III, 670.
 Gay, R., formation of cone-in-cone structure, I, 104.
 Gaydon, A. G., condition of freshly burnt gases, I, 37. Flame spectra in photographic infrared, I, 191.
 Gayer, K., and Hamburger, W., developmental potencies of eye primordia of homozygous creeper chick embryos tested by orthotopic transplantation, III, 783.
 Gayler, M. L. V., determination of equilibrium diagrams by X-ray methods. IV., I, 202.
 Gear, J., Harris, L. C., and Saner, R. G., anti-typhus vaccination of guinea-pigs with vaccine prepared from infected gerbils, III, 215.
 Geary, E. M. See Beckwith, T. D.
 Gebauer, B. See Fleischauer, G.
 Gebhardt, E., decomposition of β in aluminium-zinc alloys and effects of small additions of other elements on rate of decomposition, I, 11. Partial systems of zinc with titanium and zirconium, I, 12. Structure and volume changes of zinc-copper-aluminium alloys. IV. Causes of the volume changes and a method of obtaining volume stability, I, 12.
 Gebhardt, L. P. See Schultz, E. W.
 Geddes, W. F., and Levine, M. N., distribution of thiamin in wheat plant at successive stages of kernel development, III, 149.
 See also Lillevik, H. A.
 Gedgoud, J. L., Wilder, V. M., and Henske, J. A., significance of plasma-ascorbic acid levels in Nebraska children, III, 715.
 Gee, L. L., and Sarles, W. B., disinfection of trout eggs contaminated with *Bact. salmonicida*, III, 137.
 Geever, E. F., relation of allergy to immunity in experimental tuberculosis, III, 439.
 Geficken, W., and Kruis, A., dispersion of liquids and solutions. I. New spectro-interferometric method for accurate measurement of refractive index between 1.0 and 0.2 μ , I, 43.
 Gefter, W. I., and Leaman, W. G., jun., use of ouabain in rapid cardiac arrhythmias, III, 586.
 Geib, K. H., spectroscopic investigations of flames with atomic oxygen, I, 271.
 Geiger, A. J., Monroe, W. M., and Goodyer, A. V. N., clinical foetal electrocardiography, III, 630.
 See also Calabresi, M., and Goodyer, A. V. N.
 Geiger, E., enzyme action, III, 426.
 and Lassen, S., activation of provitamin-D₃ in rat, III, 755.
 Geiger, Ernst, colorimetric determination of ammonia with Nessler reagent, I, 208.
 and Müller, H. G., substituted amides of thiocarbonic acid as reagents for Cu⁺⁺ ions, I, 264.
 Geiger, F. See Tropp, C.
 Geiling, E. M. K., comparative anatomy and pharmacology of pituitary gland, III, 885.
 See also Chen, G., Dearborn, E. H., and Kelsey, F. E.
 Geiss, M. A., differential cell counts of anterior lobe of pituitary glands of rats showing diabetic traits, III, 560.
 Geissman, T. A., and Heaton, C. D., anthochlor pigments. IV. Pigments of *Coreopsis grandiflora*, Nutt. I., II, 274.
 See also Clinton, R. O.
 Geist, S. H., and Salmon, U. J., indications for oestrogen therapy [and vaginal smear test], III, 171. Inhibitory effect of steroid sex hormones on gonadotropic activity of pituitary, III, 561.
 Salmon, U. J., and Walter, R. I., prophylactic implantation of oestrogens following surgical and radium castration, III, 563.
 and Spielman, F., endocrine tumours of ovary, III, 820.
 See also Salmon, U. J.
 Gelbach, R. W., partial molal volumes of nickel sulphate solutions, I, 59.
 Geldern, H. von, endometriosis, III, 648.
 Gelfman, R., and Levine, S. A., incidence of acute and subacute bacterial endocarditis in congenital heart disease, III, 9.
 Gell, P. G. H. See Knox, R.
 Geller, B. A. See Zanko, A. M.
 Gellhorn, A. See Flexner, L. B.
 Gellhorn, E., and Minatoya, H., effect of insulin hypoglycaemia on conditioned reflexes, III, 798.
 and Yesinick, L., significance of carotid sinus reflex for effect of anoxia and CO₂ on convulsions, III, 633.
 Yesinick, L., Kessler, M., and Hailman, H., carotid sinus reflexes and convulsions, III, 630.
 See also Arnett, V., Kessler, M., and Kiely, W. F.
 Gellis, S. See Riordan, T. J.
 Gelman, A., co-ordination tenacity of unsaturated molecules, II, 103.
 Gelman, N. E., micro-analysis of sulphur in organic substances, II, 403.
 Gelperin, A., and Kessler, D., percutaneous typhoid prophylaxis, III, 214.
 Gelvin, P. See McGavack, T. H.
 Gemant, A., frictional phenomena. XI. c. Solids, I, 119. Potential of silver concentration cells with liquids of low dielectric constant, I, 130.
 Gemassmer, A. See Schmidt, A. W.
 Gemmell, A. A., prognosis in carcinoma of cervix, III, 184.
 Gendel, S. See Felger, L.
 Gengerelli, J. A., external field of nerve impulse, III, 308, 793.
 Genitius, V. E., and Bronstein, I. P., pregnanediol excretion in female pseudohermaphroditism, III, 173.
 Genninger, C. See Niklas, H.
 Gentner, W. See Bothe, W., and Flammersfeld, A.
 Georg, A., so-called "isosucrose," II, 3. and Bachmann, P., synthesis of nicotinamide and reaction of hydrogen peroxide with nitriles, II, 206.
 George, E. J. See Stearns, W. V.
 George, R. H. See Kariher, D. H.
 George, W. C., presomite human embryo with chorda canal and prochordal plate, III, 450.
 George, W. H. See Cannon, C. G.
 Georgi, C. E. See Steinhaus, J. E. .
 Gerasimovski, V. I., nordite, a new mineral of the Lovozero tundras, I, 75. Villiaumite from Lovozero tundras, I, 75. Metaloparite, a new mineral from the Lovozero tundras, I, 140.
 Gerber, I. E., and Fryczynski, M., use of heparinised blood in studies with Congo-red and bromsulphalein, III, 152.
 and Gross, M., production of Shwartzman phenomenon with sulphonamide conjugate of bacterial filtrate, III, 356.
 Gerecs, A. See Zemplen, G.
 Gergely, G. See Spath, E.
 Gerhardt, F. See Ezell, B. D.
 Gerlaugh, P. See Hunt, C. H.
 Gerling, E. K., age of the earth according to radioactivity data, I, 105.
 and Ermolin, G. M., separation of helium from neon, I, 95.

- Gerling, E. K., and Starik, I. E., age of pyroxene intrusions of Afrikanda and Ozernaja Varaca in the Kol Peninsula. I, 74.
and Vladimirova, M. E., age of pegmatite veins of the Ilmen Reserve in the Urals. I, 323.
- Gerlings, P. G., investigations about stimulation and paralysis of labyrinth by methylamine. III, 475.
and De Kleyn, A., vestibular nystagmus caused by acoustic stimulation. III, 476.
- German, W. J., See Turner, O.
- German, W. M., granulomas in struma fibrosa of thyroid. III, 735.
- Germann, F. E. E., and Gagos, K. A., low-pressure gauge. I, 240.
- Gernsheim, G. See Wechsler, I. S.
- Gero, L., completion of analysis of CH bands. I, 4. Completion of term scheme of lead hydride. I, 216.
and Schmid, R., predissociation phenomena in CH and CD bands. I, 4. Dissociation of isotopic molecules. I, 4. Convergence limit in C₂ spectrum. I, 191. Rotational analysis of IV positive bands of nitrogen molecule. I, 216. Explanation of perturbations in nitrogen bands. I, 216.
- Gerschun, G. V., and Narikashvili, S. P., influence of stimulation of anterior and posterior roots on activity of proprioceptors of skeletal muscle of frog. III, 872.
- Gersdorff, W. A., effect of introducing carboxyl group into phenol molecule on toxicity to goldfish. III, 765.
- Gersh, I., and Grossman, A., vascular pattern of adrenal gland of mouse and rat. III, 1.
- Gershon-Cohen, J. See Shay, H.
- Gershun, A., visual photometry in the region of low brightnesses. I, 318.
- Gersten, S. See Ferguson, C.
- Gerstl, B., and Tennant, R., effect of sodium salt of cinnamoylglycerol phosphatidic acid on lesions produced by tubercle phosphatide. III, 832.
- Gerthsen, C., and Grimm, E., energy expenditure in ionisation by radioactive recoil atoms. I, 270.
- Gertsman, S. See Munro, L. A.
- Gerundo, M., sputum concentration for culture of tubercle bacillus. III, 439. Dextrose in anaphylaxis. III, 531.
- Gettler, A. O., significance of toxicological procedures in medico-legal autopsy. III, 766.
- Gettles, A. O. See Gonzales, L. A.
- Gettner, H. H. See Abramson, H. A.
- Gevorkian, C. O. See Schwetzov, B. S.
- Geyer, B. P., synthesis of o-o'-anisoylbenzoic acid. II, 35.
- Ghigi, E., action of acid anhydrides on acenaphthenone. I. and II. Experiments in pyridine solution. II, 16, 267.
- Ghose, S. P. See Ray, P.
- Ghosh, B., activity of blood-serum-esterase under different conditions of vitamin-C nutrition. III, 902. Effect of narcotics on excretion of free and combined ascorbic acid. III, 902. Effect of administration of thyroid, 2,4-dinitrophenol, and insulin on ascorbic acid metabolism. III, 902.
- Ghosh, Bhulanak, existence of transient hydrates. I, 281.
- Ghosh, B. B. See Dutta, A. K.
- Ghosh, B. N., and Chaudhuri, D. K., determination of amino-acids in cobra (*Naja naja*) neurotoxin. III, 913.
- Ghosh, J. C., and Bhattacharyya, S. K., photo-bromination of cinnamic acid in ultra-violet light of 254 m μ . I, 232.
- Bhattacharyya, S. K., and Kar, K. R., photochemical oxidation of mandelic acid by bromine with tungstic acid sol as sensitiser in ultra-violet light of 254 m μ . I, 232.
- Ghosh, K. C. See Mitra, R. P., and Mukherjee, J. N.
- Ghosh, S. See Lahiri, J. K.
- Ghosh, Sachmoy, effect of high-frequency voltage on dielectric constant of space containing electrons. I, 189.
- Giacomello, G., and Bianchi, E., structure of stilbene derivatives; structure of 4:4-dihydroxy- $\alpha\beta$ -diethylstilbene. I, 118.
- Gianola, G. See Goldstein, Henri.
- Gibb, T. R. P., jun. See Morton, A. A.
- Gibbard, J., Campbell, A. G., Needler, A. W. H., and Medcof, J. C., effect of hibernation on content of coliform bacteria in oysters. III, 210.
- Gibbens, G. H., artificial respiration at sea. III, 381.
- Gibbs, E. L. See Nims, L. F.
- Gibbs, F. A., and Maltby, G. L., effect of electrical activity of cortex of depressant and stimulant drugs. III, 727.
See also Forster, F. M.
- Gibbs, O. S., greying of hair. III, 260.
- Gibby, I. W. See Tamura, J. T.
- Gibel, H., and Kramer, B., idiosyncrasy to mercury preparations in childhood. III, 912.
and Litvak, A. M., sulphathiazole in treatment of measles and its complications. III, 417.
- Giberson, A. F. See Richards, V.
- Gibian, H. See Fischer, Hans.
- Gibling, T. W., molecular volume and structure. III, VI, I, 31, 250.
- Gibson, C. See Cameron, A. T.
- Gibson, G., and Ward, Roland, reactions in solid state. III. Reaction between sodium carbonate and quartz. I, 233.
- Gibson, J. G. See Keeley, J. L.
- Gibson, K. S. See Kelly, K. L.
- Gibson, M. See Dormer, B. A.
- Gibson, R. See Turneaure, F. S.
- Gibson, R. E. See Robbie, W. A.
- Gibson, T., and Medawar, T. B., fate of skin homografts in man. III, 705.
See also Clark, A. M.
- Gie, G. See Adler, Erick, and Euler, H. rom.
- Gieger, M. See Sheets, O.
- Giese, A. C., stimulation of yeast respiration by ultra-violet radiations. III, 58.
- Giesecke, F., and Rathje, W., phosphates. III. Hydroxyfluorapatite. I, 312.
- Giger, P. See Baur, E.
- Gigon, A., and Noverraz, M., direct and indirect serum-bilirubin; retention of bile pigments in serum-protein precipitate. III, 789. Determining atmospheric carbon monoxide concentrations. III, 871.
- Giguere, P. A., refractive indices of hydrogen peroxide and its aqueous solutions. I, 302.
and Feeny, H., magneto-optical rotation of hydrogen peroxide. I, 298.
- Gilbert, B., delivery with reference to treatment of obstetric disproportion. III, 480. Metropathia haemorrhagica. III, 739.
- Gilbert, C. M., late Tertiary geology southeast of Mono Lake, California. I, 324.
- Gilbert, E. C. See Anderson, C. M., Baker, Elton M., Snyder, H. B., and Williams, G. E.
- Gilbert, F. W., use of pentamidine in treatment of late cases of sleeping sickness. III, 831.
- Gilbert, J. B., and Hamilton, J. B., incidence and nature of tumours in ectopic testes. III, 659.
- Gilbert, N. C., coronary flow. III, 89.
- Gilbertson, L. I. See Adams, D. F.
- Gilbreath, J. R., and Haendler, H. M., determination of copper with quinoline-8-carboxylic acid. I, 100.
- Gildea, E. F. See Fleeson, W., and Man, E. B.
- Gilder, H. See Hoagland, C. L.
- Gildersleeve, N. See Lucchesi, P. F.
- Giles, G. H., treatment of strabismus. III, 309.
- Gilliland, J. R., and Vaughn, R. H., biochemical characters of pigmented coliform bacteria. III, 919.
- Gill, A. M., and Keele, C. A., pepsin inactivation in ulcer therapy. III, 892.
- Gill, P. W., tonicity in glucose-sodium citrate solutions. III, 863.
- Gilliam, A. E., and West, T. F., absorption spectra and structures of pyrethrins I and II. I, 31.
- Gillespie, C. E., aviation ophthalmology. III, 101.
- Gillespie, W. A., influence of lysoclethrin and of incubation on shape, size, and fragility of erythrocytes. III, 861.
See also Bell, J.
- Gillette, P. R. See Almy, G. M.
- Gilligan, D. R., Garb, S., and Plummer, N., prevention of crystalluria during sulphadiazine therapy. III, 831.
- Gillis, M. B., Heuser, G. F., and Norris, L. C., need for pantothenic acid and an unidentified factor in reproduction in domestic fowl. III, 255.
- Gillison, J. A., and Taylor, F., bagassosis. III, 516.
- Gillman, J., effect of single injections of oestradiol benzoate on normal human menstrual cycle with reference to oestrogen sensitivity. III, 29. Bleeding threshold and optimum oestrogen requirement in baboon. III, 31. Nature of subjective reactions evoked in women by progesterone. III, 119. Effects on perineal swelling and on menstrual cycle of single injections of combinations of oestradiol benzoate and progesterone given to baboons in first part of cycle. III, 172. Temporary ovarian damage produced in baboons by single administrations of oestradiol benzoate and progesterone in first part of cycle. III, 172. Structure of basal granular cell (argentophin) in human (Bantu) alimentary tract with reference to anti-anemic factor. III, 328.
and Goldberg, L., survival of adrenalectomised rats. III, 23.
- and Stein, H. B., antagonism of oestrogen and progesterone in castrate rabbit. III, 32. Human corpus luteum of pregnancy. III, 739.
- See also Horst, C. J. van der.
- Gillman, W. See Bernheimer, A. W.
- Gillson, R. E. See Spain, W. C.
- Gilluly, J., mineralisation of the Ajo Copper District, Arizona. I, 140.
- Gilman, H., and Abbott, R. K., jun., thallous salts as derivatives of sulphonate acids. II, 157. Relative reactivities of organometallic compounds. XI, VIII. Direct thallation of dibenzofuran. II, 210. Reduction of chloral by organometallic compounds: *aaa*-trichlorobutan-*aa*-ol. II, 293.
and Baile, J. C., relative reactivities of organometallic compounds. XLVI. Addition of metals to phenylated olefines in liquid ammonia solution. II, 210.
- and Meals, R. N., rearrangements in Friedel-Crafts alkylation of benzene. II, 222.
- Meals, R. N., O'Donnell, G., and Woods, L. A., relative reactivities of organometallic compounds. XLVII. Organostrontium compounds. II, 210.
- and Woods, L. A., relative reactivities of organo-metallic compounds. XLV. Colour test for highly reactive organo-metallic compounds. XLIX. Reactions of group IV MR₄ compounds with silver and copper salts. II, 177, 210.
- Gilman, S. See Starr, A.
- Gilmore, W. C., jun. See Knott, W. C., jun.
- Gilmour, J. C. See Poole, J. H. J.
- Gilson, W. E., and Wooster, H. A., electronic thermoregulator. I, 165.
- Gimson, J. D., haemolytic disease of newborn (erythroblastosis foetalis) and its treatment with Rh-negative blood. III, 863.
- Ginell, R., acids and bases; critical re-evaluation. I, 257.
- and Simha, R., kinetics of polymerisation reactions. I. First-order initiation reaction. II. Second- and combined second- and first-order initiation reactions; mutual stabilisation of growing chains. I, 204.
- Gingrich, N. S. See Bray, E. E., and Eisenstein, A.
- Gingrich, W. D., and Fillmore, R. S., anti-malarial effect of acranil in birds. III, 195.
- Gingrich, W. S. See Sharrah, P. C.
- Ginn, J. T., and Volker, J. F., rusting in desalinated rats. III, 35.

- Ginn, J. T., See also Hodge, H. C.
- Gins, H. A., and Koeppen, U., bacteriological diagnosis of gas gangrene in man, III, 848.
- and Paasch, E., bacteriological findings in clinical actinomycosis, III, 144.
- Ginsburg, N. See Reynolds, S. R. M.
- Ginther, G. B. See Ingle, D. J.
- Ginzburg, G. I., ontogenetic limits of ability to regenerate hindlimb in anuran species, III, 222.
- Ginzburg, V. L., dispersion of high-frequency acoustic waves in liquids, I, 56. Relativistic theory of excited spin states of proton and neutron, I, 113. Theory of the bi-meson, I, 113. Excited states of elementary particles, I, 294.
- Giordano, A. S., idiopathic hypoprothrombinæmia, III, 864.
- See also McBride, D. E., and Markey, R. L.
- Giral, F., and Garcia Iglesias, S., determination of 2-methyl-1:4-naphthaquinone and its solution in water, II, 148.
- Giri, K. V. See Sarma, M. L., and Seshagirirao, P.
- Giribaldo, D., redox theory of electric cells, I, 279.
- Gisvold, O., synthesis of 3-hydroxyphthalic acid, II, 34. Celastrol, IV, II, 198.
- Gitlin, G., effect of repeated injections of sheep anterior pituitary extract on weight of ovaries of *Xenopus laevis*, III, 32.
- Gitlow, S. See Newman, B.
- Giuntini, J. See Lépine, P.
- Gius, J. A. See Burt, C. A. V., and Youmans, W. B.
- Giusea, R. See Angelescu, E.
- Gjessing, E. C., and Sumner, J. B., synthetic peroxidases, III, 519.
- Gladding, E. K., and Purves, C. B., determination of carbonyl groups in chromic anhydride oxystarch and oxy cellulose by means of hydroxylamine, II, 295.
- See also Grangaard, D. H.
- Gladding, (Miss) J. V. K. See Huntress, E. H.
- Gladischev, A. T. See Pscheschetzki, S. J.
- Gladstone, M. T. See Kharasch, M. S.
- Glagoleva-Arkadieva, A. A., theory of mass-radiator, I, 46.
- and Sokolov, N. A., resonance thermocouples used for investigation of complete radiation in the ultra-Hertz band, I, 101.
- Glanzmann, E., panhaemocytophthisis and leukaemia in children, III, 160.
- and Wegelin, C., diabetes insipidus and Simmonds' disease following encephalitis, III, 885.
- Glaser, J., use of bovine tetanus antitoxin, III, 286.
- Glaser, M. A., and Sjaardema, H., electroencephalographic diagnosis of extradural and subdural haemorrhage, III, 552. Value of electroencephalogram in cranial injuries, III, 727.
- See also Sjaardema, H.
- Glaser, N. M. See Sacks, J.
- Glaser, R. W., and Stanley, W. M. biochemical studies on virus and inclusion bodies of silkworm jaundice, III, 925.
- Glass, H. G. See Pfeiffer, C.
- Glass, (Miss) J. J. See Marble, J. P., and Schaller, W. T.
- Glass, M., symposium on asthma. III. Non-surgical sinus drainage, III, 95.
- Glass, S. J., treatment of amenorrhœa with diethylstilbestrol and chorionic gonadotropin, III, 115.
- and Rosenblum, G., therapy of menopause, III, 648.
- Glass, W. I., Springarn, C. L., and Pollack, H., enormous insulin requirements in diabetes mellitus, III, 111.
- Glassco, E. See Bourque, J. E.
- Glasser, O. See Crile, G.
- Glasser, S. T., venous variations at fossa ovalis: significance of recurrences following ligations [for varicose veins], III, 449.
- Glasson, B. See Leuthardt, F.
- Glaubach, S. See Pick, E. P.
- Glavind, J. See Dam, H.
- Glazunov, I. V. See Kasparova, S. A.
- Gleason, D. F. See Clark, W. G.
- Glees, P., structure of connective tissue sheaths of cutaneous nerves, III, 163.
- Glenn, F., neurogenic fibroma of transverse colon, III, 333.
- See also Bird, R. M., and Maisel, B.
- Glenn, W. R., and Hailey, H. E., camphor-phenol mixture in fungous infections of feet, III, 674.
- Glenn, W. W. L., Muus, J., and Drinker, C. K., physiology and biochemistry of quantitative burns [changes in blood and lymph flow], III, 719.
- Gleny, F. H., main arteries in neck and thorax of *Casuarinus australis*, III, 153. Main arteries in neck and thorax of *Rhea americana*, III, 781.
- Gleu, K., and Schubert, A., condensation of phosphorus oxychloride-acridone with dimethylaniline, II, 308. Interaction of phosphorus oxychloride-acridone with Grignard reagents, II, 309.
- Gleysteen, L. F. See Deitz, V. R.
- Glick, D. See Sawin, P. B.
- Glick, F. See Riebsomer, J. L.
- Glickman, M., local treatment for ulcerative gingivitis, III, 832.
- Globus, J. H., amaurotic family idiocy, III, 554.
- and Kuhlenbeck, H., tumours of striothalamic and related regions: probable source of origin and more common forms, III, 129.
- Zucker, J. M., and Rubinstein, J. M., tumours of brain in children and in adolescents, III, 728.
- Glock, G. E. See Platt, B. S.
- Glock, W. S. See Studhalter, B. A.
- Glockler, G., and Evans, G. E., double minimum problem applied to potassium hydrogen fluoride, I, 5.
- Glover, B. T. J., and Wright, H. D., diphtheria in inoculated persons, III, 281.
- Glover, J., efficiency of headgear as insulation against radiation, III, 425.
- Glover, J. A., prevention of chronic otitis and deafness, III, 236.
- Glyone, S. R., control of diseases of cattle inimical to man: tuberculosis, III, 923.
- Glueck, B., treatment of alcoholism, III, 589.
- Glyer, N. M. See Oppenheimer, M. J.
- Glyn-Hughes, F. See McGibbon, C., and Nelson, R. B.
- Glynn, J. H., and Starkey, D. H., cultural and antigenic properties of *Shigella sonnei*, III, 212.
- Gnassi, A. M. See Rundleff, E.
- Goddard, A. B. See Slaughter, B.
- Godfrid, M. See Katzman, P. A.
- Godlevski, M. N., and Ivanov, A. A., lueneburgite from Stebnik potassium salt deposit, I, 107.
- See also Ikornikova, N. J.
- Godwin, M. C., thymus IV in pig, III, 618.
- Goebel, W. F., and Adams, M. H., immunological properties of heterophil antigen and somatic polysaccharide of pneumococcus, III, 849.
- Shedlovsky, T., Lavin, G. I., and Adams, M. H., heterophil antigen of pneumococcus, III, 605.
- Goedvolk, C. See Cluver, E. H.
- Goehring, M., and Stamm, H. [with Feldmann, U.], polythionic acids and their formation. V. Reactions of sulphur chlorides, I, 97.
- See also Stamm, H.
- Golz, E., ultramicroscopic fine structure of fractured glass surfaces, I, 273.
- Goerdeler, J. See Helferich, B.
- Gorlich, P., composite photo-cathodes. II., I, 219.
- Goertzel, G., and Cox, R. T., effect of oblique incidence on conditions for single scattering of electrons by thin foils, I, 118.
- Goetsch, E., operability of hyperthyroid patient,
- Götte, H., behaviour of ferric hydroxide studied by emanation method. II. Influence of silicic acid, I, 160.
- Göttlicher, F., and Dittrich, W. W., determinations of atmospheric pressure and temperature effects with cosmic rays, I, 247.
- Goetsch, E. See Lytle, J. D.
- Goetsch, M., α -tocopherol requirement of mouse, III, 258.
- Goetz, R. H., smoking and thrombo-angiitis obliterans, III, 94. Apparatus for storage of gas-free solutions for use with Van Slyke gasometric methods, III, 871.
- and Cole-Rous, M., case of Raynaud's phenomenon with additional manifestations, III, 94.
- Goetzl, S. See Nelson, D.
- Goforth, M. L. See Willson, J. R.
- Gogate, V. S. See Prasad, M.
- Gogte, G. R., β -arylglutaconic acids. VII. Constitution of so-called hydroxy-anhydrides, II, 163.
- Gokhale, S. D., Phalnikar, N. L., and Bhawe, S. D., dipole moment and molecular structure. V. Dipole moments of derivatives of ethylene glycol and glycerides, I, 193.
- Golan, H. G., and Sack, S. S., value of continuing preseasonal therapy during pollen season, III, 76. Relationship between clinical symptoms and pollen count in pollinosis, III, 70.
- Golberg, L., and Heyns, O. S., synthetic oestrogens, III, 392.
- and Thorp, J. M., nicotinic acid excretion in normal men and cases of Vincent's gingivitis, III, 410.
- Gold, A., mercurimetric determination of chlorides in blood, III, 627.
- Gold, Harry, use of bulk ether in anaesthesia, III, 587.
- and Zahm, W., evaluation of laxative agents in constipated human subjects; comparative laxative potency of fumarates, sodium tartrate, and magnesium acid citrate, III, 833.
- See also Fox, T., and Riker, W. F.
- Gold, Herman, sulphonamides and serum in anthrax, III, 340.
- and Fitzpatrick, F., typhus in previously vaccinated laboratory workers, III, 441.
- and Hampil, B., equine encephalomyelitis in laboratory technician with recovery, III, 68.
- and Masucci, P., oral prophylaxis against poison ivy, III, 139, 290.
- Gold, L. H., and Garofalo, M., treatment of aphonia by intravenous administration of pentothal sodium, III, 874.
- Gold, M. H. See Riegel, B.
- Goldberg, A., Koster, H., and Warshaw, R., fate of procaine in body after subarachnoid injection, III, 344.
- Goldberg, A. A., vital stains. I., II, 31. Isethionic acid, II, 32. Taurine, II, 83.
- Goldberg, H. See Freid, J. R.
- Goldberg, J. A. See Long, W. B.
- Goldberg, J. D., and De Hoff, J., modified or reverse Schultz-Charlton technique in diagnosis of scarlet fever, III, 526.
- Goldberg, L. See Gillman, J.
- Goldberg, M. A. See Schultz, J.
- Goldberg, M. B., and Lisser, H., acromegaly: its course and treatment, III, 112.
- Goldberg, M. W., Aeschbacher, R., and Hardegger, E., steroids and sex hormones. LXXXIV. 17(a)-Hydroxy-20-keto-compounds of the pregnane and allopregnane series, II, 199.
- and Kirchensteiner, H., steroids and sex hormones. LXXXIII. Δ -Homocholestanone and Δ -homodihydrotestosterone, II, 200.
- and Studer, S., steroids and sex hormones. LXXX. Constitution of D -homoeoestrone. LXXXI. D -Bishomoeoestrone, II, 168.
- and Wydler, E., steroids and sex hormones. LXXXV. D -Homoandrostanone derivatives, a group of highly active androgens, II, 375.
- See also Ruzicka, L.

- Goldberger, E., test for measuring sedimentation rate, III, 81.
- Goldblatt, H., Braden, S., Kahn, J. R., and Hoyt, W. A., effect of hypophysectomy on experimental renal hypertension, III, 550.
- Kahn, J. R., and Lewis, H. A., treatment of experimental hypertension, III, 380. Production of persistent hypertension in sheep and goats, III, 462.
- Katz, J. D., Lewis, H. A., and Richardson, E., experimental hypertension; bioassay of renin, III, 462.
- See also Gyorgy, P.
- Goldblatt, M. W., and Oakeshott, S. H., inactivation of phosphorus on skin [by various preparations], III, 515.
- Goldblum, A. A. See Segall, H. N., and Tunick, A. M.
- Goldburgh, H. L., and Baer, S., death following intravenous injection of diodrast, III, 149.
- Baer, S., and Lieber, M. M., acute bacterial endocarditis of tricuspid valve, III, 8.
- and Gouley, B. A., sulphur dioxide chemical pneumonia; recovery, following accidental explosion of refrigerator unit, III, 678.
- Goldby, F., experimental study of thalamus in phalanger, *Trichosurus vulpecula*, III, 382.
- Golden, J. B. See Lauson, H. D.
- Golden, M. See Goldfarb, W.
- Golden, S., simple thyatron circuit, I, 71.
- Golden, W. R. C., and Long, C. N. H., absorption [from intestine] and deposition of glucose in the chick, III, 35.
- Goldfarb, A. E., Bueding, E., and Karp, P., determination of "citrin" in lemon preparations, III, 756.
- Goldfarb, A. I., Tarlov, I. M., Bojar, S., and Wiener, A. S., plasma clot tensile strength measurement: its relation to plasma-fibrinogen, III, 625.
- See also Tarlov, I. M.
- Goldfarb, A. R., and Berk, B., derivatives of 2:5-diaminobenzenesulphonamide, II, 226.
- Goldfarb, W., and Golden, M., absorption of carbohydrates in man, III, 329.
- See also Bueding, E., and Wortis, J.
- Goldfeld, J. M., and Kobosev, N. I., effect of force interactions on adsorption process. I. Adsorption equilibrium. II. Adsorption kinetics, I, 123.
- Goldfelder, A., radiation effects and cell viability [in mice], III, 516.
- Goldfinger, G., Josefowitz, D., and Mark, H., heats of polymerisation of vinyl compounds, I, 279.
- Najdus, H., and Mark, H., formation of biradicals in non-catalysed polymerisation of styrene, II, 258.
- Goldhaber, M. See Gamertsfelder, G. R.
- Goldich, S. S. See Sandell, E. B.
- Goldie, H., Parsons, C. H., and Bowers, M. S., titration of tetanal toxins, toxoids, and antitoxins with flocculative test, III, 434.
- Goldin, A., chemical factors and regeneration in *Tubularia*, III, 620.
- Goldinger, J. M. See Barron, E. S. G.
- Goldman, A., Markham, M. J., and Schaffer, A. I., treatment of case of pemphigus with deoxycorticosterone acetate, III, 110.
- See also Grunn, H., and Lapin, J. H.
- Goldman, D., clinical and electroencephalographic observations in severe epilepsy under treatment, III, 467.
- Goldman, F. H., analysis of atmospheric samples of explosive chemicals, III, 270.
- and Yagoda, H., collection and determination of traces of formaldehyde in air, II, 287.
- Goldman, J. E., and Lawson, A. W., photoconductivity of lead chromate, I, 297.
- Goldman, L. M., Kessler, H. B., and Wilder, M. E., colostrum skin test for pregnancy, III, 242.
- Goldman, S. See Zurrow, H.
- Goldman, S. F., and Markham, M. J., clinical use of testosterone in male climacteric, III, 34.
- Goldman, T. H., feeding newborn high-protein, low-fat, low-carbohydrate mixtures, III, 404.
- Goldmann, B. A., Dickens, K. L., and Schenken, J. R., apparent cure of periarteritis nodosa with sulphapyridine, III, 50.
- See also Guy, W. H.
- Goldmann, H., and Hagen, R., direct measurement of total refractive power of living human eye, III, 17.
- Goldner, M. G., and Haerem, A. T., oral glucose tolerance tests in dogs with intestinal resections, III, 828.
- and Rickerts, H. T., insulin allergy, III, 215.
- Goldring, E. D., occurrence of ilsemannite, I, 170.
- Goldschlag, F., case of drug allergy of both types: fixed and generalised eruption, III, 611.
- Goldschmid, O. See Lewis, G. N.
- Goldschmidt, B. See Marinelli, L. D.
- Goldschmidt, H. J., crystal structures of iron, ferrous oxide, and ferroso-ferric oxide and their interrelations, I, 83.
- Goldsmith, D. P. J. See Marker, R. E.
- Goldsmith, G. A., evaluation of nicotinic acid nutrition by studies of urinary excretion, III, 334.
- and Cordill, S., vasodilating effects of nicotinic acid, III, 576.
- Goldsmit, J., dynamics of intracapsular cataract extraction, III, 471.
- Goldstein, A. See Straus, O. H.
- Goldstein, A. E., and Klotz, B., pyonephrosis in congenital polycystic kidneys, III, 398.
- Goldstein, Henri, and Gianola, G., 2-bromo-4:5-dinitrobenzoic acid, II, 192.
- and Grandjean, P., oximation of juglone, II, 197. Oximation of 2-hydroxy- and 2-anilino-1:4-naphthaquinone, II, 198.
- and Voegeli, R., 3:4-Dinitrobenzonitrile and -benzaldehyde, II, 366.
- Goldstein, Hyman. See Levin, M. L.
- Goldstein, K., adjustment of organism to cerebral defects, III, 467.
- See also Schlezinger, N. S.
- Goldstein, M. R. See Hodge, H. C.
- Goldstein, M. S., Mexican crania, III, 451.
- Goldstein, N. P., and Roe, J. H., determination of lipolytic enzymes of serum, III, 866. Effect of injury to pancreas or liver on amylase and lipidase content of blood, III, 866.
- Goldstone, B. W., subcutaneous ligation of varicose veins, III, 631.
- Goldzieher, M. A., and Salmovitz, S., endocrine aspects of hypertension, III, 462.
- See also Gusman, H.
- Golenternek, D. See Hanley, B. J.
- Goll, M. See Tauber, H.
- Golla, Y. M. L. See Reiss, M.
- Golledge, S. V., stilboestrol and hydrops amnii, III, 172.
- Gollnow, H. See Schüler, H.
- Golmov, V. P., and Kazanski, B. A., formation of diethyl cyclobutane-1:1-dicarboxylate by the Kishner process, II, 92.
- See also Kazanski, B. A.
- Goloborodko, T. A., angular distribution of photo-neutrons (γ R, Be), I, 111.
- Goltz, H. L. See Reinhard, M. C.
- Goltzschmidt, V. A., and Vorobiev, N. K., kinetics of bimolecular reactions in non-aqueous solutions, I, 156.
- See also Potapov, I. V.
- Golub, O. J. See Weiser, R. S.
- Golubkova, K. M., Petin, N. N., and Toptschieva, K. V., equilibrium and surface phenomena in systems phenol-formic acid-water and phenol-acetic acid-water, II, I, 13.
- Golumbic, C., antioxidants and autoxidation of fats. XIV. Isolation of antioxidants from vegetable fats, II, 54.
- Gombás, P., formulation of limiting laws of quantum states of atoms, I, 1. Calculation of atomic terms, I, 77. Calculation of the eigenfunction and energy of ground state of valency electrons in alkaline-earth atoms, I, 213.
- Gombay, L., highly dehydrated gelatin films and their electrical conductivity, I, 152.
- Gomez, E. T., mammary gland growth in hypophysectomised castrated guinea-pigs, III, 391. Existence and specificity of an orally active sex maturity factor in plant juice preparations, III, 482. Pituitary (mammogen) control of mammary development, III, 560.
- See also Lewis, A. A.
- Gomoljako, L. G., source of carotene, III, 407.
- Gomori, G., histochemical reactions for lipin aldehydes and ketones, III, 368. Calcification and phosphatase, III, 544. Hexose di-phosphatase, III, 599. Pathology of pancreatic islets, III, 893.
- Gompertz, M. L. See Vorhaus, M. G.
- Gontscharski, L. A., simple volumeter, I, 321.
- Gonzales, J. O. See Andrews, J. S.
- Gonzales, L. A., and Gettles, A. O., alcohol and pedestrians in traffic accidents, III, 138.
- Gonzales, L. M., and Morales-Otero, P., determination of races of *Shigella dysenteriae*, Flexner, III, 357.
- Good, C. K., and Garb, J., tuberous sclerosis with epilepsy, III, 638.
- Goodall, D. W., and Bolas, B. D., vernalisation of tomato seed, III, 533.
- Goodall, J. R., premarin in post-menopausal complications, III, 242. Clinical and pathological properties of malignancy, III, 898.
- Goode, W. See Scott, T. F. M.
- Goodkind, R. See Perlman, E.
- Goodman, C., and Evans, R. D., age measurements by radioactivity, I, 289.
- and Thompson, G. A., autoradiography of ores, I, 241.
- See also Evans, R. D., and Hurley, P. M.
- Goodman, H. C. See Wald, G.
- Goodman, J. E. See Feldman, M.
- Goodman, J. I., Corsaro, J. F., and Stacy, R., mercurial and xanthine diuretics in chronic congestive heart failure, III, 346.
- Goodman, J. L., changes in size and contour of thorax during first postnatal week, III, 221.
- Goodof, I. I., and Lischer, C. E., tumour of carotid body and pancreas, III, 820.
- Goodpasture, W. C. See Dragstedt, L. R.
- Goodrich, B. E., and Bradford, H. A., recognition of virus type pneumonia, III, 68.
- Goodrich, E. S., denticles in fossil Actinopterygii, III, 77.
- Goodrich, H. B., and Trinkaus, J. B., effect of radiations on Mendelian phenotypes of *Carassius auratus*, III, 299.
- Goodson, J. A., alkaloids of seeds of *Delphinium elatum*, L., II, 176.
- Goodstone, G. L. See Davidoff, E.
- Goodwin, L. G., and Page, J. E., study of excretion of organic antimonials using a polarographic procedure, III, 657.
- Goodwin, P. A. See Lothrop, W. C.
- Goodwin, R. A., jun., Paterson, O. L., and Finland, M., absorption and excretion of sulphanamethyldiazine in man, III, 339.
- Goodwin, T. W., spectroscopic examination of aromatic diamides before and after exposure to light, III, 908.
- Goodyer, A. V. N., Geiger, A. J., and Monroe, W. M., clinical foetal electrocardiography, III, 304.
- See also Geiger, A. J.
- Gootnick, A., night cramps and quinine, III, 551.
- Gopal, R., variation of specific conductivity with concentration of electrolytes in aqueous solution, I, 257. Supersaturation limits of solutions, I, I, 302.
- Gorbman, A., and Evans, H. M., correlation of histological differentiation with beginning of function of developing thyroid of frog, III, 556.
- Gordon, A. H., Martin, A. J. P., and Syngle, R. L. M., partial acid hydrolysis of cow-hide gelatin, II, 179. Amino-acid content of gramicidin, II, 179. Partition chromatography applied to protein constituents, II, 179. Amino-acid composition of tyrocidine, III, 846.

- Gordon, A. R., temperature coefficient of conductance of potassium chloride solutions, I, 63. Isopiestic measurements in dilute solutions; system potassium chloride-sodium chloride at 25° at concentrations from 0·03 to 0·10M, I, 150.
See also Gunning, H. E., Janz, G. J., Keenan, A. G., MacWilliam, E. A., and Olynyk, P.
- Gordon, A. S. See D'Angelo, S. A., and Vollmer, E. P.
- Gordon, B. E., photoluminescence and association of ions in lead salt solutions, I, 176.
- Gordon, C. M., and Wardley, J. R., effect of plasma-proteins on sedimentation rate of human blood, III, 865.
- Gordon, D. H., heats of vaporisation from reference substance plot, I, 273.
- Gordon, E. See Dobriner, K.
- Gordon, E. J. See Lisa, J. R.
- Gordon, G. B. See Levine, S.
- Gordon, H., and Csaky, T., permeability of intestinal epithelium and tubular epithelium of the kidney, III, 657.
- Gordon, H. H. See Benjamin, H. H.
- Gordon, H. McL., antihelmintic efficiency of phenothiazine against immature *Trichostyngulus* spp. in sheep, III, 512.
- Gordon, J., sulphonamides in staphylococcal pneumonia, III, 340.
and Gordon, M., involution forms of genus *Vibrio* produced by glycine, III, 527.
- Gordon, J. E. See Schwentker, F. F.
- Gordon, M., and Higginbottom, C., medium showing distinctive green coloration with growths of *C. diphtheriae intermedius*, III, 63.
See also Gordon, J.
- Gordon, M. B., and Fields, E. M., chorionic gonadotropin and testosterone propionate in treatment of cryptorchidism and hypogenitalism, III, 119. Effect of male sex hormone and chorionic gonadotropin on height and bone development, III, 394.
- Gordon, R. A., and Bowers, V. H., high blood-sulphanilamide level from local application, III, 509.
and Shackleton, R. P. W. trichloroethylene anaesthesia in plastic surgery, III, 512.
- Gordon, R. D., and Zobell, C. E., successive dilution method for estimating bacterial populations, III, 206.
- Gordon, R. M., and Seaton, D. R., histological comparison of effects of drugs on scabies, as studied in rodent infections, III, 50.
- Gordon, S., and Singleton, A. C., gastric peristalsis, III, 327.
- Gordon, S. A., and Wildman, S. G., conversion of tryptophan into a plant growth-substance by conditions of mild alkalinity, III, 614.
- Gordon, S. G., results of the Chilean mineralogical expedition of 1938. I. Identity of lapparentite with tamarugite. II. Crystallography of metavoltine. III. Penfieldite from Sierra Gorda, Chile. IV. Identity of salvadorite with krohnkite. V. Cadvaladerite, a new aluminium mineral from Cerro Pintados, Chile. VI. Another hexahedrite (iron meteorite) from northern Chile. VII. Crystallography of alunogen, meta-alunogen, and pickeringite; crystallography of fibroferrite. VIII. Crystallography of ferrinafrrite, I, 168, 292. Greenockite from Llallagua, Bolivia, I, 268. Thion-free monazite from Llallagua, Bolivia, I, 268. Slavikite, butlerite, and parabutlerite from Argentina, I, 268.
- Gordon-Taylor, G., sphincter mechanism of lower end of bile duct, III, 397.
- Gordy, W., and Pauling, L., molecular structure of methyl isocyanide, I, 118.
- Gore, M. See Arey, L. B.
- Gore, R. C., infra-red spectroscopy as an organic analytical tool, II, 347.
- Goreczky, L., and Berencsi, G., changes of blood pressure and fibrinogen content of plasma, III, 787.
- and Kovacs, J., blood pressure and fibrinogen of arterial blood, III, 787.
- Gorekin, V. hydrazine compounds of platinum and palladium, I, 97. Hydroxylamine compounds of platinum and palladium, I, 97.
- Goresline, H. E. See Stuart, L. S.
- Gorham, A. T. See Smith, P. K.
- Gorham, L. W., Propp, S., Schwind, J. L., and Climenko, D. R., thrombocytopenic purpura caused by sulphonamide drugs, III, 584.
See also Lyons, J. J. A.
- Gornall, A. G., nitrogen in ornithine cycle of urea formation, III, 414.
and Hunter, Andrew, synthesis of urea in liver; citrulline as an intermediary in ornithine cycle, III, 565.
- Gorodetsky, S., Chanson, P., and Denamur, H., variation of cosmic-ray showers with altitude; photons in the showers, I, 47.
See also Leprince-Ringuet, L.
- Gorrell, J., automatic recording devices used in medical research, I, 267.
- Gorshkov, G. S., new mineral from region of Lake Inder, I, 105.
- Gortner, R. A. See Lew, B. W.
- Gorvin, J. H. See Ayling, E. E.
- Goss, C. M., physiology of embryonic mammalian heart before circulation, III, 228.
- Goss, H., peculiarities of ruminant nutrition, III, 573.
- Gosse, C. L. See Higgins, C. C.
- Goswami, P. C. See Mukherjee, J. N.
- Goth, A. See Bush, M. T.
- Gottardo, P., and Winters, W. L., correlation of clinical, laboratory, peritoneoscopic, and autopsy findings in portal cirrhosis, III, 36.
- Gottfried, S. P. See Natelson, S.
- Gotthardt, E., stereoscopic measurement of objects with the electron microscope, I, 72.
- Gottlieb, H., Quackenbush, F. W., and Steenbock, H., biological determination of vitamin-E, III, 579.
- Gottlieb, J. S., effect of benzedrine sulphate in migraine, III, 266.
- Gottlieb, P. M., and Urbach, E., distribution and pollination times of important hay fever-producing plants in United States, III, 926.
- Gottlieb, R., whole liver as adjuvant to iron in treatment of hypochromic anaemia, III, 370. Dosage of liver extract in treatment of cord lesions associated with pernicious anaemia, III, 636.
- Gottschalk, A., chemical equations of phytochemical reductions by fermenting yeast cells and their relationship to the Pasteur effect, III, 202. Synthesis of polysaccharides by yeast cells fermenting anaerobically glucose, fructose, or mannose, III, 203.
- and Rawlinson, W. A., constant-pressure respirometer; use with medium volumes of yeast suspension, III, 203.
- Goubeau, J., normal vibrations and configuration of hydrazine. III. Raman spectrum of hydrazine, I, 144.
- Goudet, G., ultrasonic fluorometer, I, 138.
- Goudy, H., qualitative test for tellurium [in minerals], I, 184.
- Gouelman, W. A. See De Sanctis, A. G.
- Gould, B. S., Tytell, A. A., and Jaffie, H., biochemistry of *Fusarium*; influence of diphosphopyridine nucleotide on alcoholic fermentation (*in vivo*), III, 203.
See also Schwachman, H., and Tytell, A. A.
- Gould, G. N., physiological basis for use of oestrogens in veterinary practice. II. Use of stilboestrol in the field, III, 172.
- Hignett, S. L., and Steele-Bodger, H. W., technique for pregnancy diagnosis and treatment of bovine infertility, III, 174.
- Gould, J. N., and Thomas, T. G., diagnosis of alkapttonuria, III, 656.
- Gould, R. G., jun., Craig, L. C., and Jacobs, W. A., ergot alkaloids. XIX. Transformation of *dl*- and *d*-lysergic acid into 6:8-dimethylergolines, II, 49.
- Gould, S. E., immunological reactions in subclinical trichinosis, III, 442.
- Gouley, B. A. See Goldburgh, H. L.
- Govan, A. D. T., production of fatty degeneration of heart muscle by a high-fat diet, III, 867.
- Govier, W. M., shock induced by haemorrhage. III. Correlation of plasmathiamin content with resistance to shock in dogs, III, 623.
- Gowen, J. W., and Calhoun, M. L., physical basis for genetic resistance to mouse typhoid, III, 620.
and Lincoln, R. E., test for sexual fusion in bacteria, III, 278.
- Graaf, M. L., and Skau, E. L., coloured chromatograms with higher fatty acids, II, 287.
- Grace, A., and Hall, J. A., bath for use in graduation and testing of thermometers, I, 165.
- Grady, H. G., Blum, H. F., and Kirby-Smith, J. S., types of tumour induced by ultraviolet radiation and factors influencing their relative incidence, III, 488.
See also Andervont, H. B., Blum, H. F., Blumberg, H., and Lippincott, S. W.
- Graef, I., medial hypertrophy of renal arterioles in pregnancy, III, 463.
See also Ralli, E. P.
- Graessle, O. See Robinson, H. J., and Seeler, A. O.
- Grafa, B. G., jun. See Treadwell, C. R.
- Graham, C. F., simplification of fluorescence microscopy, III, 76.
- Graham, E. A., amount of lung tissue compatible with life, III, 464.
See also Mueller, C. B.
- Graham, H. T., effects of polarisation on nerve action potentials, III, 13.
- Graham, J. R., one application of benzyl benzoate for scabies, III, 510.
- Graham, O. J. See Kyes, P.
- Graham, R. See Sampson, J.
- Graham, W. R. See Vaughan, W. T.
- Grahame, D. C., nature of the electrical double layer, I, 256.
- Grail, G. F. See Stetten, De W., jun.
- Gramacho, D., potassium mercuric thiocyanate in microchemical technique, I, 285.
- Grambow, J. See Kortüm, G.
- Grampoloff, A. V. See Naves, Y. R.
- Grande, F. See Robinson, W. D.
- Grandjean, P., and Reichstein, T., bile acids and related substances. XIX. Methyl 3(a)-hydroxy- Δ^{11} -norcholesterol and 3(a)-hydroxy- Δ^{11} -bisnorcholesterol, II, 236.
See also Goldstein, Henri, Lardon, A., and Press, J.
- Granet, E., total gastrospasm, III, 123.
- Granggaard, D. H., Gladding, E. K., and Purves, C. B., estimation of dialdehyde type of oxidation in hydroxystarches and hydroxy-celluloses, II, 25.
- Granger, W. See Gunn, R. M. C.
- Granichstadt, H., and Percival, E. G. V., polysaccharides of Iceland moss (*Cetraria islandica*). I. Hemicelluloses, II, 124.
See also Percival, E. G. V.
- Granick, S., ferritin. IV. Occurrence and immunological properties, III, 712.
and Michaelis, L., ferritin. II. *apo*Ferritin of horse spleen, II, 146.
See also Michaelis, L.
- Granit, R., rotation of activity and spontaneous rhythms in the retina, III, 312. "Red" receptor of *Testudo*, III, 312. Relation between rod and cone substances based on scotopic and photopic spectra of *Cyprinus*, *Tinca*, *Anguilla*, and *Testudo*, III, 312. Colour receptors of frog's retina, III, 313. Isolation of colour-sensitive elements in mammalian retina, III, 313. Spectral properties of visual receptor elements of guinea-pig, III, 313. Photopic spectrum of pigeon, III, 314. Physiological theory of colour vision, III, 472. Visual purple, III, 554. "Red" and "green" receptors in retina of *Tropidonotus*, III, 877. Spectral properties of visual receptors of cat, III, 877.
- and Svaetichin, G., electrophysiological analysis of colour reception with aid of micro-electrodes, III, 472.

- Granit, R. See also Bernhard, C. G.
 Grant, C. W., and Zobell, C. E., oxidation of hydrocarbons by marine bacteria, III, 354.
 See also Zobell, C. E.
 Grant, F. R. L. See Weinberger, L. M.
 Grant, J., and Ritchie, T. F., mustard gas burns, III, 424.
 Grant, W. C., and Krantz, J. C., jun., mechanism of action of urea derivatives on normal and tumour tissue, III, 569.
 Grant, W. H. See Shoulders, H. S.
 Grant, W. M. See Kinsey, V. E.
 Granville, W. C., Nickerson, D., and Foss, C. E., trichromatic specifications for intermediate and special colours of the Munsell system, III, 878.
 Grasham, W. E. See Keevil, N. B.
 Grasset, E., standardisation of African viper (*Bitis arietans*) and Cape cobra (*Naja flavata*) antivenenes, III, 373. Live plague vaccine as prophylactic against plague, III, 525.
 and Davison, A. R., antigenic treatment of leprosy with non-acid-fast variety of tubercle bacillus (N.A.C.), III, 608.
 See also Davison, A. R., and Pirie, J. H. H.
 Gran, C. R. See Almquist, H. J.
 Grauer, H. See Edlbacher, S.
 Grauer, R. C., and Alexander, M., modifying influence of testicular tissue on efficacy of testosterone pellets in treatment of eunuchoidism, III, 121.
 See also Saier, E., and Starkey, W. F.
 Grave, B. H., sex reversal in shipworm, III, 738.
 Graves, F. W., See Dublin, T. D.
 Graves, R. R. See Matthews, C. A.
 Graves, R. W. See Youngstrom, K. A.
 Graves, T. C., and Russell, H. G. B., discussion on ear, nose, and throat disease in mental disorder, III, 317.
 Grawitz, P. B., diapedesis and inflammation, III, 160.
 Gray, C. F., equilibrium in hydrogen-methane-steel system, I, 202.
 Gray, C. G., phase transformations of normal paraffins, I, 273.
 Gray, C. H., ketogenic activity of anterior pituitary extracts, III, 25.
 Gray, E. LeB., and Cawley, J. D., state of vitamin-A in liver of rat. II. Effect of feeding the vitamin over extended periods, III, 187.
 Gray, G. F., transpiration in strawberries as affected by root temperature, III, 536.
 Gray, H. See Robson, G. B., and Wayburn, E.
 Gray, H. W. See Fuson, R. C.
 Gray, J., and Lissmann, H. W., deafferentation and amphibian activity, III, 381. Amphibian ambulatory reflexes, III, 381.
 Gray, J. S., Wieczorowski, E., Wells, J. A., and Harris, S. C., preparation and properties of urogastrone, III, 176.
 See also Schiffrin, M. J.
 Gray, L. A., clinical study of oestrogenic preparation of oral use, III, 648.
 Gray, M. See Hammon, W. McD.
 Gray, M. G., and Moore, M., value of bromide determination in diagnosis and treatment of bromide intoxications, III, 52.
 See also Dayton, N. A.
 Gray, P. See Handler, P.
 Gray, P. A., and Elliot, A. H., specific gravity of whole blood and serum, III, 455.
 Gray, P. P. See Rothchild, H.
 Gray, R. C., incidence of green-red blindness, III, 472.
 Gray, R. K., blood-grouping of aborigines of North-West Australia, III, 158.
 Gray, S. J., colloidal gold reaction of blood serum in liver disease, III, 375. Spinal fluid colloidal gold reaction, III, 384.
 and Barron, E. S. G., electrophoretic analyses of serum-proteins in diseases of liver, III, 627.
 and Mitchell, E. B., effect of purified protein fractions on sedimentation rate of erythrocytes, III, 372.
 Gray, W. D., alcohol tolerance of yeasts, III, 428.
- Graybiel, A., and White, P. D., diseases of heart, III, 8, 718.
 See also Brouha, L., and Johnson, R. E.
 Graydon, J. J., and Biggs, C. L., bacterial survival in presence of antisepsics, III, 342.
 Grayman, I., Nelson, N., and Mirsky, I. A., influence of sex on carbohydrate metabolism, III, 327.
 See also Mirsky, I. A.
 Grayson, J. McD., coloration of grasshopper, *Melanoplus bivittatus*, Say., III, 658.
 and Tauber, O. E., carotene—principal pigment responsible for variations in coloration of adult grasshopper, *Melanoplus bivittatus*, Say., III, 400.
 Greaves, J. E. See Gubler, C. J., and Jones, L. W.
 Grechkin, N. P., and Arbusov, A. E., synthesis of polynuclear hydrocarbons from benz-anthrone, II, 127.
 Greco, J. B., Lima, A. O., and Cancado, J. R., treatment of underweight with insulin, III, 24.
 Lima, A. O., and Tupinamba, A., pollen content of air in Belo Horizonte, Brazil, III, 532.
 Greear, J. N., pits or crater-like holes in optic disc, III, 167.
 Greeley, D. M. See Jorgenson, G. M., and Lyttle, J. D.
 Greeley, P. O., Martin, H. E., and Hallman, L. F., disposal of glucose at high and normal blood-sugar levels under action of insulin, III, 169.
 Green, A. E. S. See Panofsky, W. K. H.
 Green, A. G. See Morton, A. A.
 Green, D. E., Nocito, V., and Ratner, S., l-amino-acid oxidase of animal tissues, III, 681.
 Westerfeld, W. W., Vennesland, B., and Knox, W. E., carboxylases of animal tissues, III, 56.
 Green, D. J. See Arnold, A.
 Green, H. See Emersen, P. W., and Gross, R. E.
 Green, H. D., Wegria, R., and Boyer, N. H., effects of adrenaline and pitressin on coronary artery inflow in anaesthetised dogs, III, 377.
 Green, H. G., motion of a mercury index in a capillary tube, I, 224.
 Green, H. N., and Parkin, T., local treatment of infected wounds with sulphathiazole, III, 264.
 Green, J. A., David, A., and Johnston, G., production of insulin resistance in depancreatized dogs, III, 239.
 Green, J. D., antenatal care in obstetrics, III, 563.
 Green, M. See Reiner, L.
 Green, M. A., tobacco skin reactions in peripheral vascular diseases and coronary artery disease, III, 93.
 Green, M. N., and Shaughnessy, H. J., effect of electrolytes on Kahn precipitates from human and animal sera, III, 358.
 Green, R. E. See Clausen, N. M.
 Green, R. G., nature of virus adaptations, III, 287.
 Carlson, W. E., and Evans, C. A., inactivation of vitamin-B₁ in diets containing whole fish, III, 255.
 Carlson, W. E., Evans, C. A., and Swale, F. S., chasteck paralysis in foxes: B₁ avitaminosis induced by feeding fish, III, 98.
 See also Siedentopf, H.
 Green, R. H. See Havens, W. P.
 Green, T. W., and Birkeland, J. M., use of chick embryo in evaluating disinfectants, III, 343.
 Greenbaum, F. R., healing action of allantoin, allantoin-dipiperazine, and urea, III, 140.
 Greenberg, B., effect of testosterone on sexual pigmentation and sex characters of cricket frog (*Acrida gryllus*), III, 742.
 See also Barenberg, L. H., and Woble, G. K.
 Greenberg, B. E., Berman, S., Gargill, S. L., and Griffin, R. C., staining spermatozoa, III, 651.
- Greenberg, D. M., Copp, D. H., and Cuthbertson, E. M., artificial radioactive isotopes in mineral metabolism investigations. VII. Distribution, and excretion by the bile, of iron, cobalt, and manganese, III, 506.
 See also Copp, D. H.
 Greenberg, G. See Clark, W. G.
 Greenberg, L. A., acetoin: polarographic determination and disappearance from blood after administration, III, 376. Acetoin not a product of metabolism of alcohol, III, 677. Determination of bromides and chlorides in biological materials and accurate clinical method for determining bromide in small amounts of blood, III, 704.
 Lolli, G., and Rubin, M., influence of intravenously administered alcohol on emptying time of stomach, III, 652.
 See also Lolli, G.
 Greenblatt, R. B., syndrome of nocturnal frequency alleviated by testosterone propionate, III, 121. Uterine bleeding, III, 242. Testosterone propionate pellet implantation in gynaecological disorders, III, 891.
 and Hair, L. Q., testosterone propionate absorption in females, III, 121.
 Greenburg, L., Mayers, M. R., Heimann, H., and Moskowitz, S., industrial exposure to toluene, III, 53. Effects of exposure to toluene used as component of paints, III, 767.
 Greene, B. A., comatose patients, III, 100.
 Greene, C. H., liver and biliary tract, III, 565.
 and Bruger, M., cephalin-cholesterol flocculation and other tests of liver function, III, 565.
 Greene, H. H. See Riskind, L. A.
 Greene, H. S. N., heterologous transplantation of human fibrosarcoma, III, 331. Participation of anterior chamber of eye in resistance phenomena related to tumour growth, III, 403.
 and Brown, W. H., transplantable squamous-cell carcinoma in the rabbit, III, 749.
 Greene, J. A., unusual sounds emanating from chest, III, 872.
 and Keohen, G. F., insulin resistance due to infection in diabetes mellitus, III, 882.
 Greene, J. B., and Manning, M. F., electronic energy bands in face-centred iron, I, 195.
 Greene, J. S., atypical laryngeal and vocal changes in adolescence [effect of gonadotropin in cryptorchidism], III, 651.
 Greene, M. R. See Rosenfeld, W. D.
 Greene, R., cold in treatment of damage due to cold, III, 461.
 Greene, R. D., and Black, A., micro-biological assay of riboflavin, III, 824.
 Black, A., and Howland, F. O., micro-biological and chemical assay of nicotinio acid in [vitamin-B] complex products, III, 410.
 Greene, R. R., and Thomson, D. M., effects of oestrogen on androgenic stimulation of prostate and seminal vesicle of rat, III, 241.
 See also Burrill, M. W.
 Greenfield, E. W., application of guard electrodes in dielectric measurements, I, 71.
 Greenfield, J. G. See Carleton, A.
 Greenfield, S. S. See Trelease, S. F.
 Greengard, H., Elghammer, H. W., and Ivy, A. C., therapeutic test in rheumatic fever [colloidal sulphur-polysulphide], III, 140.
 Greenhill, J. P., and Freed, S. C., testosterone propionate in treatment of gynaecological disorders, III, 327. Gynaecologic and obstetric endocrinology, III, 887.
 and Schmitz, H. E., hermaphroditism and sex determination, III, 562.
 See also Freed, S. C.
 Greenlee, K. W., and Fernelius, W. C., hydrogenation of disubstituted acetylenes, II, 53.
 Greenspan, F., common cold, III, 530.
 Greenstein, J. L. See Keenan, P. C.

- Greenstein, J. P.**, sulphhydryl groups in normal and tumorous hepatic tissue extracts before and after addition of salts, III, 183. Creatine and creatinine content of transplanted hepatomas of normal and regenerating liver, III, 402. Incubation of citrulline and ammonia with normal and neoplastic hepatic tissues, III, 402. Liver-catalase activity of tumour-bearing animals, III, 490. Tumour enzymology, III, 490. Degradation of cystine by normal liver but not by transplanted hepatomas, III, 749. Colloid osmotic pressure of mixtures of protein and thymus-nucleate, III, 914.
- Andervont, H. B.**, Edwards, J. E., and White, J., comparative enzymic activity of transplanted hepatomas and of normal, regenerating, and foetal liver, III, 182.
- and Thompson, J. W., copper content of tissues of tumour-bearing animals, III, 490. See also Davis, B. D.
- Greenstone, A.** See Ehret, W.
- Greenthal, R. M.** See Winters, K.
- Greenwald, L.**, Litwincz, J., and Spielholz, J. B., bone marrow aplasia after sulphanilamide, III, 136.
- Greenwalt, T. J.** See Dameshek, W., and Tat, R. J.
- Greenwood, D. A.** See Beadle, B. W.
- Greenwood, M.**, medical statistics from Graunt to Farr, III, 80.
- Greenwood, R.**, effect of chemical impurities on scheelite fluorescence, I, 289.
- Greenwood, W. F.**, Haist, R. E., and Taylor, N. B., plasma-potassium following intestinal obstruction in dogs, III, 396.
- Greep, R. O.** See Hellbaum, A. A.
- Gregg, D. E.**, Pritchard, W. H., Eckstein, R. W., Shipley, R. E., Rotta, A., Dingle, J., Steege, T. W., and Wearne, J. T., accuracy of thermostromuh, III, 9.
- Gregg, R. O.**, and Allen, E. G., erythrocyte sedimentation test, III, 158. See also Masson, J. C.
- Gregg, S. J.**, resemblance between surface films on solids and on water, I, 35. Heat of adsorption of ethyl chloride and of sulphur dioxide on sugar charcoal, I, 279.
- Grégoire, C.**, regeneration of involuted thymus after adrenalectomy, III, 882.
- Gregory, M.** See Wells, G. P.
- Gregory, M. K.**, ocular criteria of deficiency of riboflavin, III, 876.
- Greiner, C. D. J.** See Bradley, J. E.
- Greisen, K.**, intensity of cosmic rays at low altitude and origin of soft component, I, 247. and Nereson, N., inefficiency and other sources of error in cosmic ray measurements with self-quenching counters, I, 71.
- Greisheimer, E. M.**, Hafkesberg, R., and Wertenberger, G. E., influence of diet on action of sulphonamides, III, 339.
- Grembergen, G. van.** See Massart, L.
- Grenfell, T. C.** See Means, J. A.
- Greulich, W. W.** See Simmons, K.
- Greville, G. D.**, intravenous glucose-tolerance curve, III, 46, 414.
- Grice, K. D.** See Baker, W.
- Griderman, N. T.**, biological vitamin-A assay, III, 497.
- Grieve, B. J.**, physiology of host-parasite relations. IV. Effects of tomato spotted wilt on growth, III, 854.
- Griffin, C. W.**, sorption of carbon monoxide by metals; temperature variation experiments, I, 60.
- Griffin, R. C.** See Greenberg, B. E.
- Griffing, M.** See Biefeld, L. P.
- Griffith, A. S.**, cultural characters and pathogenicity for laboratory animals of vole strain of acid-fast bacillus, III, 439.
- Griffith, F. R., jun.** See Kingdom, C. L.
- Griffith, W. H.**, Pavcock, P. L., and Mulford, D. J., relation of sulphur-amino-acids to toxicity of cobalt and nickel in rat, III, 405. See also Mulford, D. J.
- Griffiths, J. T., jun.**, and Tauber, O. E., effects of pH and concentrations of sodium, potassium, and calcium chloride on muscular activity of isolated crop of *Periplaneta americana* (Orthoptera), III, 723. See also Tauber, O. E.
- Griffiths, M.**, effect of hexestrol and α -methyl-stilbene on insulin content of rabbit pancreas, III, 326.
- Griffiths, S. D.**, ants as probable agents in spread of *Shigella* infections, III, 525.
- Griggs, W. H.**, and Schrader, A. L., effect of branch ringing before and after blossoming on fruit set of apple, III, 533.
- Grigorescu, D.** See Hess, K.
- Grigsby, W. E.**, Hind, J., Chanley, J., and Westheimer, F. H., malonic ester synthesis and Walden inversion, II, 90.
- Grilly, E. R.** See Johnston, H. L.
- Grim, R. E.**, and Rowland, R. A., differential thermal analysis of clay minerals and other hydrous minerals. I. and II., I, 172.
- Grim, W. M.** See Lytle, J. D.
- Grimaldi, F. S.**, Stevens, R. E., and Carron, M. K., determination of iron in presence of chromium and titanium with the Jones reductor, I, 237. See also Cannon, R. S., jun.
- Grimm, E.** See Gerthsen, C.
- Grimm, H. G.**, chemical linking, I, 299.
- Grimm, L.** See Klemm, W.
- Grimsell, E.**, optical activity of nitro- and amino-mandelic acids, II, 162. See also Fredga, A.
- Grindley, D. N.** See Henry, A. J.
- Grinker, R. R.**, and McLean, H. V., course of depression treated by psychotherapy and metrazol, III, 99.
- Grinnell, S. W.** See Koenig, F. O., Irving, L., and Scholander, P. F.
- Grinstein, M.**, and Watson, C. J., protoporphyrin. I. Purification of protoporphyrin IX as obtained from haemoglobin. II. Improved micro-method for converting protoporphyrin into mesoporphyrin. III. Photo-electric and fluorophotometric determination of protoporphyrin in blood, III, 546.
- Grinstein, V.** See Levins, A.
- Grishman, E.** See Adlersberg, D.
- Griswold, H. E., jun.** See Youmans, W. B.
- Griswold, J.**, calculation of relative volatility, I, 254. and Dinwiddie, J. A., vapour-liquid equilibrium of methanol-ethanol-water; ethanol dehydration, I, 36.
- Haney, J. D.**, and Klein, V. A., ethanol-water system; vapour-liquid properties at high pressures, I, 227.
- and Ludwig, E. E., pure hydrocarbons from petroleum; vapour-liquid equilibrium of methylcyclopentane-benzene and other binary aromatic systems, I, 129.
- Griswold, R. A.** See Ambrose, A. M.
- Gritzaenko, G. S.**, nickel chlorite of the W. Kemper-Sai deposits, I, 28.
- Groat, R. A.**, adrenocortical-like tissue in ovaries of adrenalectomised ground squirrel (*Citellus tridecemlineatus*), III, 885.
- Groat, W. A.** See Andrews, G. B.
- Grob, A.** See Ruzicka, L.
- Grob, D.**, antiproteolytic activity of serum. I. Nature and experimental variation. II. Influence of purified trypsin-inhibition on coagulation of blood. III. Influence of trypsin and antiprotease on bacterial growth and sulphonamide action, III, 519.
- Grodins, F. S.**, Ivy, A. C., and Adler, H. F., intravenous administration of oxygen, III, 722. See also Freeman, S.
- Grollman, A.**, influence of alcohol on circulation, III, 589. and Harrison, T. R., reduction of blood pressure of hypertensive rats by administration of marine oils, III, 790. Separation from kidney tissue of substance capable of reducing blood pressure in experimental hypertension, III, 790.
- Grollman, A.** See also Gersh, I.
- Gromova, V.**, fauna of upper paleolithic site near Irkutsk, Siberia, III, 156.
- Groody, M. E.** See Grody, T. C.
- Groody, T. C.**, and Groody, M. E., feather depigmentation and pantothenic acid deficiency in chicks, III, 42.
- Groome, J. R.**, effect of testosterone on female rats, III, 175.
- Groot, C.** See Brown, Herbert C.
- Groot, H.**, *Hæmobartonella tyzzeri* in Colombia, III, 356.
- Groover, M. E., jun.** See Sheldon, A. J.
- Groper, M. J.**, and Biskind, G. R., ethynodiol-estradiol: clinical evaluation, III, 392.
- Groscurth, J.**, *B*-hypovitaminotic anorexia, III, 575.
- Grosheim-Krysko, K. W.**, photometric determination of bismuth; determination of bismuth content of lead alloys by means of the Pulfrich photometer, I, 286.
- Groskin, L.** See Kolmer, J. A.
- Gross, B.**, experiments with electrets, I, 272. and Denard, L. F., effect of temperature on charged condensers, I, 287.
- Gross, E.**, and Siromiatnikov, A., structure of the Rayleigh line and viscosity of liquids, I, 297.
- Gross, E. G.**, effect of liver damage on urinary morphine excretion, III, 345. and Cullen, S. C., effects of anaesthetic agents on muscular contraction, III, 910. See also Fugo, N. W., and Knowlton, G. C.
- Gross, H.**, and Sandberg, M., concentration of creatine in heart, diaphragm, and skeletal muscle in uremia, III, 96.
- Sandberg, M.**, and Holly, O. M., changes in copper and iron retention in chronic diseases accompanied by secondary anaemia, III, 5.
- Gross, I. H.** See De Bodo, R. C.
- Gross, L.**, spontaneous recovery from sarcoma in castrated adult and in sexually immature mice, III, 182.
- Gross, M.** See Gerber, I. E.
- Gross, P.**, and Kesten, B., lipotropic substances in psoriasis, III, 670. and Morningstar, W., focal glomerulitis in elderly patients, III, 566. See also Axelrod, A. E.
- Gross, P. M.** See Saylor, J. H.
- Gross, R. E.**, Emerson, P., and Green, H., surgical exploration and closure of patent ductus arteriosus, III, 231. and Wolbach, S. B., sclerosing hemangiomas, III, 899. See also Ladd, W. E.
- Gross, S. T.**, crystal structure of minium, I, 251. See also Schirmer, F. B.
- Gross, W.** See Spandau, H.
- Gross, W. J.** See Adams, R.
- Grossberg, A. L.** See Pressman, D.
- Grosse, A. V.**, concept of catalytic chemistry, I, 259. and Linn, C. B., addition of hydrogen fluoride to the triple linking, II, 53.
- Grossman, F. M.**, acoustic sound filtration and hearing aids, III, 880.
- Grossman, L.** See Schwartzman, J.
- Grossowicz, N.** See Kligler, I. J.
- Grote, F.**, determination of lead by chromate method, I, 264.
- Groth, W.**, and Harteck, P., autodiffusion of xenon and krypton, I, 224.
- Grott, J. W.**, causation of acute attacks of gout by disturbances of oxalic acid metabolism, III, 261.
- Grouiller, H.**, molecular bands in the violet and near ultra-violet spectra of Mira Ceti, I, 248.
- Groves, W. E.**, estimation of percentage of compensable hearing defects, III, 880.
- Grozin, M.**, "visible tuberculin patch test," III, 924.
- Grschibovskaja, L. A.** See Borovski, I. B.
- Grubaugh, K. K.**, and Starin, W. A., therapy of experimentally induced gangrene [with azochloroamide], III, 674.

- Grubb, T. C., media for typhoid blood cultures, III, 924.
 See also Hager, G. P., and Karel, L.
- Grube, G., and Botzenhardt, L., alloys of thorium with copper, aluminium, and sodium, I, 12.
 and Flad, M., affinity and heat changes accompanying mixed crystal formation in the system chromium-nickel, I, 37.
 and Fromm, G., stages of oxidation of ruthenium. II. Oxidation potential $Ru^{III} \rightleftharpoons Ru^{IV}$ in hydrochloric acid solution, I, 229. Isomerism of ruthenium trichloride hydrates, I, 262.
- Gruber, C. M., Hart, E. R., and Gruber, C. M., jun., pharmacology and toxicology of ethyl ester of 4-phenyl-1-methylpiperidine-4-carboxylic acid (demerol), III, 197.
- Gruber, C. M., jun. See Gruber, C. M.
- Grünberg, A. A., oxidation of geometrically isomeric platinoglycines, II, 121.
 and Lavrentiev, V. N., oxidation-reduction potentials of platinum compounds including organic amines and glycine, I, 63.
- Grüneberg, H., anaemia of flexed-tailed mice (*Mus musculus*, L.). II. Siderocytes, III, 156. Congenital hydrocephalus in mouse, a case of spurious pleiotropism, III, 784. Two new mutant genes in house mouse, III, 784.
 See also Doniach, I.
- Gruewald, P., primary asymmetry of growing Mullerian ducts in chick embryo, III, 155. Developmental basis of regenerative and pathologic growth in uterus, III, 392. Normal changes in position of embryonic kidney, III, 542. Aplasia of umbilical cord, III, 782.
- Grum-Grishimailo, N. V., law of changes of crystalline lattice parameter of solid solutions, I, 88.
- Grumbach, A., typing enterococci, III, 604.
 See also Maier, C.
- Grummitt, O., and Buck, A. C., synthesis of 1-methylnaphthalene, II, 185.
 and Stickle, R., preparation of diphenylthiocarbazide and diphenylthiocarbazone (dithizone), II, 87.
- Grundfest, H., and Campbell, B., origin, conduction, and termination of impulses in dorsal spinocerebellar tracts of cats, III, 14.
- Grundmann, A. W. See Kitselman, C. H.
- Gruner, J. W., and Stauffer, C. R., occurrence of bobiterite, $Mg_3(PO_4)_2 \cdot 8H_2O$, I, 244.
- Grunn, H., and Goldman, A., differentiation of benign from malignant polyploid bronchial tumours, III, 660.
- Grupeu, E. S. See Hamburger, M., jun.
- Gsell, O., and Engel, M., sulphanilamide-resistant pneumonia, III, 49.
- Gubler, C. J., and Greaves, J. E., cystine content of wheat and its determination, III, 294.
- Gubler, J. A. See McNealy, R. W.
- Gudjons, H. See Freudenberg, K.
- Guedel, A. E., cyclopropane anaesthesia, III, 911.
- Günther, B., action of benzedrine sulphate on excitability of nerve, muscle, and heart in frog, III, 511. Toxicity of benzedrine sulphate in white mouse and frog, III, 511.
- Guenther, E. S., and Langenau, E. E., chemical constituents of distilled lime oil (*Citrus medica*, L., var. *acida*, Brandis), III, 702.
- Günther, F. See Ardenne, M. von.
- Günther, R., glycogen storage disease, III, 261.
- Günther-Schulze, A., cathodic sputtering. I. Primary vaporisation of copper. II. Determination of edge factor. III. Incomplete covering of cathode with anomalous glow discharge. IV. Dispersion of primary vaporised particles, I, 2, 46.
- Guerra, F., action of benzole on central nervous regulating mechanisms, III, 764.
- Guerrant, N. B. See Chornock, C.
- Guest, G. M., organic phosphates of blood and mineral metabolism in diabetic acidosis, III, 47.
- See also Rapoport, S.
- Guest, H. L., and Salle, A. J., effect of oxidation-reduction on germicidal efficiency of metallic salts, III, 342.
- Guest, P., relation between chlorosis of *Macadamia* seedlings and chemical constituents, III, 614.
- Gugel, B. M., upper ignition limits of sulphur in oxygen and in mixtures of oxygen and inert gases, I, 37.
- Guggemos, H. See Fischer, Hans.
- Guggenheim, L., therapy of deafness, III, 805.
- Guggenheimer, K. M., nuclear energy levels, I, 190.
- Guggisberg, H., pharmacological termination of pregnancy, III, 119.
- Guha, B. C. See Banerjee, S.
- Guha, P. C., and Das Gupta, D. B., sulphanilamide derivatives possessing heterocyclic rings: sulphanilamidothiodiazoles, II, 344. and Dokras, V. M., synthesis of sulphanilamide derivatives of thianthren, II, 335. Synthesis of sulphanilamide derivatives of mixed sulphides possessing heterocyclic rings, II, 344.
- Rao, P. L. N., and Verghese, T. G., synthesis of δ -diethylaminoisoamylamine required for manufacture of atebrin, II, 354.
- Guha, R. C., Dutta, N. K., and Mukerji, B., antimony content and toxicity of urea stibamine, III, 268.
- Guha, S. K., dyes derived from acenaphthene-quinone. VIII. (6-Methyl)thionaphthene-acenaphthylene-indigos, II, 335.
- Guigoz, M., and Jaton, A., milk preserves and wartime nutrition, III, 750.
- Guild, S. R. See Crowe, S. J.
- Guilder, R. P., audiometric and word test findings, III, 555.
- Guillet, R., oxidation of ascorbic acid and ultra-violet irradiation of water, I, 66.
- Guilliermond, A., culture of vegetable tissues, III, 444.
- Guimaraes, C. P., occurrence of mineralisation in Caledonian deposits, I, 107. Mineral resembling tantalite, I, 290.
- Guirard, B. M. See Snell, E. E.
- Gukelberger, M., respiration with Swiss Army gas mask, III, 721.
- Gukova, M. M., and Butkevitsch, V. S., rate of photosynthesis in leguminous plants supplied with free or combined nitrogen, III, 293.
 See also Butkevitsch, V. S.
- Gulbransen, E. A., formation and stability of oxide films, I, 68. Transition state theory of formation of thin oxide films on metals, I, 183.
- Gulina, E. I. See Uspenskaja, T. A.
- Guliaeva, L. A., distribution of boron in waters of Azerbaijan oilfields and its correlational value, I, 73. Boron distribution in organogenic deposits, I, 322.
- Itkina, E. S., and Romm, I. I., vanadium, nickel, and copper in petroleum of Urals and Volga region, I, 108.
- Gulick, A. See Williamson, M. B.
- Gulland, J. M., Barker, G. R., and Jordan, D. O., configuration of yeast nucleosides, III, 274.
- Gullberg, J. E. See Wagman, J. H.
- Gumbiner, B. See Levin, I. M.
- Gundermann, J., influence of fine grinding on heats of wetting and of dissolution of sugar and cellulose, I, 17.
- Gunn, D. L., body temperature in poikilothermal animals, III, 192. Daily rhythm of cockroach activity, III, 249.
 and Cosway, C. A., humidity and cockroach respiration, III, 633.
- Gunn, E. M. See Chafee, F. H.
- Gunn, R. M. C., Saunders, R. N., and Granger, W., fertility in sheep. II. Seminal changes affecting fertility in rams, III, 122.
- Gunning, H. E., and Gordon, A. R., conductance of aqueous solutions of potassium bromide at temperatures from 15° to 45° and limiting mobility of bromide ion, I, 154.
- Gunning, R. E. See Shuler, R. H.
- Gunning, R. E. L., and Ross, C. A., rhabdomyosarcoma of corpus uteri, III, 184.
- Gunsalus, I. C., and Niven, C. F., jun., effect of pH on lactic acid fermentation, III, 61.
- Salisbury, G. W., and Willett, E. L., bacteriology of bull semen, III, 208.
- and Sherman, J. M., fermentation of glycerol by streptococci, III, 606.
- and Wood, A. J., dehydrogenation of alcohols by streptococci of group B, III, 284. Production of active resting cells of streptococci, III, 284.
- Gunson, E. B., communal feeding, III, 494.
- Gunten, H. von, effect of vitamin-C, -A, and -B₂ on reticulocytosis in children, III, 187.
- Gunther, L., endocrinics and calcium metabolism, III, 644.
- Engelberg, H., Henstell, H. H., and Strauss, L., action of drugs on patients with normal intramuscular and venous pressure, III, 10.
- Engelberg, H., and Strauss, L., intramuscular pressure. I. and II., III, 10.
 and Henstell, H. H., apparatus for measurement of intramuscular and venous pressure, III, 10.
- Gunther, M., lactation in women, III, 393.
- Gupta, J., and Majumdar, A. K., constitution of hypophosphoric acid and its salts, I, 82.
- Gupta, N. C. S. See Mukherjee, J. N.
- Gupte, R. B. See Kelkar, K. V.
- Gurevich, E. See Cicardo, V. H.
- Gurin, M. M. See Lebedinski, V. V.
- Gurinsky, D. H. See Ehret, W.
- Gurjanova, E., valency states of sulphur, I, 82.
- Gurley, H. See Nepler, O. E.
- Gurney, R. W., master reaction in oxidation chains, I, 183.
- Gurvich, A. G. See Frenkel, Y. I.
- Gurvitsch, A. G., and Gurvitsch, L. D., peculiarities of chain reactions and common energy levels in living systems, III, 271. Energetic balance of appearance of mitogenetic radiation, III, 271.
- Gurvitsch, I. G. See Fastovski, V. G.
- Gurvitsch, L. D. See Gurvitsch, A. G.
- Gusman, H., and Goldzieher, M. A., synergism between pituitary extracts and chorionic gonadotropin, III, 113.
- Guss, L. S., simplified derivation of the Bohr atom, I, 141.
- Gustafson, F. G., facility of producing parthenocarpic fruits in different plants, III, 537. β -Naphthoxyacetic acid as an inductor of parthenocarpy in tomatoes, III, 537.
- Gustak, E. See Prelog, V.
- Gustavson, R. G. See Beniams, H.
- Gustina, F. J. See Farber, J. E.
- Gutfreund, H., fractionation of protein mixtures by electrophoresis, II, 314.
- Guthmann, E. See Bell, G. H.
- Guthori, P., geology of Donetz bituminous coal basin, I, 28.
- Guthrie, G. B., jun., and Huffman, H. M., thermal data. XVI. Heat capacity and entropy of isopentane; absence of a reported anomaly, I, 253.
- Gutmacher, A. F., artificial insemination in sterility, III, 479.
- Gutman, A. B., serum-acid phosphatase in prostatic carcinoma, III, 659.
 and Gutman, E. B., phosphorylase in calcifying cartilage, III, 705.
- Gutman, E. B., and Warrick, F. B., phosphorylative glycogenolysis and calcification in cartilage, III, 273.
 See also Moore, D. H.
- Gutman, E. B. See Gutman, A. B.
- Gutmann, E., Guttmann, L., Medawar, P. B., and Young, J. Z., rate of regeneration of rabbit nerve, III, 635.
 and Sanders, F. K., recovery of fibre numbers and diameters in regeneration of peripheral nerves, III, 635.
- Gutttag, A. See Hockett, R. C.
- Guttenberg, W. von, radial spreading of organic liquids on water surfaces, I, 14.
- Guttmann, L., Westrum, E. F., jun., and Pitzer, K. S., thermodynamics of styrene, including equilibrium of formation from ethylbenzene, I, 253.

- Guttmann, E., and Mayer-Gross, W., psychology of pain, III, 724.
and Rimoldi, H., fatigue and effort syndrome, III, 725.
- Guttmann, L. See Gutmann, E.
- Guy, C. C., and Rotondi, A. J., ovarian lesions simulating appendicitis, III, 171.
- Guy, W. H., Goldmann, B. A., and Gannon, G. P., phenarsine hydrochloride in syphilis, III, 678.
- Guyer, A., and Perren, R., separation of water-soluble salts by flotation; (sodium, potassium, and ammonium salts), I, 69.
- Guymon, J. F. See Underkofer, L. A.
- Guyton, J. S., and McGovern, F. H., diathermy coagulation in treatment of angiomatosis retinæ and of juvenile Coats' disease, III, 802.
- Gwathmey, A. T., and Benton, A. F., reaction of gases on surface of a single crystal of copper. I. Oxygen, I, 94.
- Gwynn, B. H., and Degering, E. F., condensation products of keten with ketones, II, 23.
- Gyani, B. P., and Ganguly, P. B., adsorption in relation to constitution. I. Adsorption of alkaloids by silica gel, I, 199.
- Gye, W. E., Ludford, R. J., and Barlow, H., failure of Hg II to inhibit growth of tumours in mice, III, 898.
- Gyorgy, P., Poling, E. C., and Goldblatt, H., necrosis, cirrhosis, and cancer of liver in rats fed dimethylaminoazobenzene, III, 569.
- and Tomarelli, R., antioxidant activity in sources of B-vitamins, III, 498.
- Tomarelli, R., Ostergard, R. P., and Brown, Jerome B., unsaturated fatty acids in dietary destruction of NN-dimethylaminoazobenzene (butter-yellow) and in production of anaemia in rats, III, 496.
- Gyori, F., circulation in red bone marrow, III, 81.
- Gysin, M., metamorphism of dolomites produced by contact with serpentines in the Divrik (Turkey) region, I, 27. Presence of cobalt in iron ore from Divrik, Turkey, I, 323.
- H.**
- Haag, E., and Dolphin, C., iodometric micro-determination of pyruvic acid, glucose, and of a mixture of these two substances, II, 147.
- Haag, H. B., and Larson, P. S., fate of nicotine in the body. I. Effect of pH on urinary excretion of nicotine by tobacco smokers. II. Fate of nicotine in dog, III, 422.
- See also Larson, P. S.
- Haag, J. R. See Jones, I. R.
- Haagen-Smit, A. J., Jeffreys, C. E. P., and Kirchner, J. G., separation of carotenes from xanthophylls, III, 540.
- See also Lepkovsky, S.
- Haam, E. von, and Rosenfeld, I., effect of sex hormones on experimental pneumococcus infections in mice, III, 117.
- Haas, E., cytochrome oxidase, III, 768.
- Haas, G., electron-microscopic and electron diffraction studies of structure of volatilised metal films, I, 125.
- Haas, H. B., Hibshman, J. H., and Romberger, F. T., cyclopropane-air-oxygen anaesthesia, III, 911.
- Haas, O., and Dougherty, G., tribenzylsulphonium hydrogen sulphate and hydroxide, II, 296.
- Haase, G., McLeod gauge of great accuracy and sensitivity, I, 320.
- Habbu, M. K. See Sokhey, S. S.
- Haber, E. S., and Gaessler, W. G., sugar content of sweet corn pollen and kernels of inbred and hybrid strains susceptible to tassel infestation by aphid, III, 535.
- Hac, L. R., Eilert, M. L., and Adair, F. L., chemotherapy in *C. welchii* infection in mice, III, 341.
- Hackett, W. R., determination of peptic activity, III, 743.
- Hackmann, C., effect of active principles of gonads on formation and growth of malignant tumours, III, 127.
- Hackspill, L., and Rohmer, R., reduction of water vapour by aluminium in presence of traces of mercury, I, 94.
- Hacman, D., and Hazel, O., energy and range of slow α -rays, I, 269.
- Haden, R. L., and Burns, J. T., Hodgkin's disease, III, 87.
- Haden, W. L., jun., and Rice, O. K., chain photolysis of acetaldehyde in intermittent light, I, 22.
- Haden, W. W. See Pierce, J. S.
- Hadley, F. P., Hailey, P., and Leathem, W. W., variations in peroxide production by β -haemolytic streptococci, III, 437.
- See also Hadley, P.
- Hadley, J. B., stratigraphy, structure, and petrology of the Mt. Cube area, New Hampshire, I, 292.
- Hadley, P., and Hadley, F. P., influence of sulphaniamide on mucoid and smooth-phase cultures of haemolytic streptococci *in vitro*, III, 438.
- and Wetzel, V., conditions contributing to streptococcal virulence. I. Intraphasic contrasted with inter-phasic variation, III, 923.
- See also Hadley, F. P.
- Hadorn, W., pneumometer for determination of maximal expiration in shortest time, III, 721.
- Haefler, R., field-electron microscopical observations on tungsten points, I, 29. Experimental test of wave-mechanical theory of field electron emission, I, 213.
- Hagg, G., MX₂ layer lattices with close-packed X atoms, I, 299.
- Kiessling, R., and Linden, E., crystal structures of cadmium bromide and cadmium iodide, I, 299.
- and Linden, E., X-ray studies on the system cadmium bromide-cadmium iodide, I, 300.
- Haglund, E., Heiwinkel, H., and Bergak, T., chemistry of sulphite cooking, XL. Effect of sulphite-cooking acids on different types of sugars; fermentation of sulphite liquors of diverse origins, II, 356.
- Haemig, E., and Heyden, W., influenza-like epidemic with numerous pulmonary infiltrations in a battalion, III, 776.
- Haendler, H. M. See Dugan, L., jun., and Gilbreath, J. R.
- Haerem, A. T. See Goldner, M. G.
- Hausermann, H. See Ruzicka, L.
- Hausser, H. See Diemair, W.
- Hafkesbring, R. See Greisheimer, E. M.
- Hagan, W. H. See Chase, A. M.
- Hageman, R. H., McHargue, J. S., and Hodkiss, W. S., [determination of] iodine and boron [in plant material], III, 150.
- Hagen, G. See Rabe, P.
- Hagen, R. See Goldmann, H.
- Hagen, W. S., Alexander, H. A., and Peppard, T. A., carbon tetrachloride poisoning, III, 592.
- See also Cardle, A. E.
- Hager, G. P., Chapman, C. W., and Starkey, E. B., toxicity of benzoic acid for white rats, III, 139.
- and Grubb, T. C., bacteriostatic activity of fluoro- and bromo-derivatives of organic acids, III, 342.
- and Starkey, E. B., fluorine-substituted aromatic acids, II, 191.
- Haggard, H. W., supplementary feeding in industry, II, 899.
- Hagner, A. F. See Krieger, P.
- Hahn, F. L., alkalimetric standardisation of iodine solutions, I, 41. Derivation of existence of a critical temperature, I, 254.
- and Adler, M., measurement of reaction velocities and determination of smallest quantities of catalytic substances by a potentiometric method. I. Iodine, I, 280.
- Hahn, G., and Tulns, R., preparation of alkoxy-o-aminophenylacetic acids, alkoxy-oxindoles and -isatins, II, 383.
- Hahn, O., chemical elements and natural atomic types according to position of isotope and nuclear research (addendum to report on work from end of 1939 to end of 1940), I, 293.
- and Strassmann, F., short-lived barium and lanthanum isotopes obtained in uranium fission, I, 30.
- Strassmann, F., Mattauch, J., and Ewald, H., radioactive caesium at an earlier period in the earth's history; barium and strontium from pollucite, I, 46.
- See also Mattauch, J.
- Hahn, O. T. See Finkelnburg, W.
- Hahn, P. F., Bale, W. F., Ballou, W. M., Ross, J. F., and Whipple, G. H., red cell and plasma volumes (circulating and total) as determined by radio-iron and by dye, III, 370.
- See also Pommerenke, W. T.
- Hahn, V., Cerkovnikov, E., and Prelog, V., substituted 4-aminopiperidines, III, II, 382.
- Haig, C., and Post, J., vitamin-A concentration in rat liver during recovery from carbon tetrachloride cirrhosis, III, 663.
- Hailey, H. E. See Glenn, W. R.
- Hailman, H. See Gellhorn, E.
- Hailstone, W. N., glucose and citrate anti-coagulant solution, III, 713.
- Haimerl, H. See Clusius, K.
- Haimsohn, J. N. See Whitmore, F. C.
- Hain, A. M., and Sym, J. C. B., control of menopause flushes by vitamin-E, III, 648.
- See also Anderson, A. F.
- Hainer, R. M. See King, G. W.
- Haines, R. W., evolution of epiphyses and endochondral bone, III, 1.
- Haines, S. F., adenomatous goitre with hyperthyroidism, III, 237.
- See also Boothby, W. M.
- Haines, W. J. See Rose, W. C.
- Hair, L. Q. See Greenblatt, R. B.
- Haist, R. E. See Greenwood, W. F.
- Hajna, A. A., and Perry, C. A., comparison of presumptive and confirmative media for bacteria of coliform group and for faecal streptococci, III, 772.
- Hakala, N. V. See Petermann, M. L.
- Hakan, B. L. See Morton, A. A.
- Hakim, D. N. See Ramasarma, G. B.
- Halban, H. von, and Litmanowitsch, M., ion association and absorption spectrum, III, I, 216.
- Halberstam, C. A. See Schwartz, S. A.
- Halbert, S. P. See Cohen, B.
- Halcrow, J. P. A., haemorrhagic encephalopathy following arsenical therapy, III, 678.
- Haldane, J. B. S., moments of distributions of powers and products of normal variates, III, 2.
- Selective elimination of silver foxes in Eastern Canada, III, 224. Selection against heterozygosis in man, III, 367.
- Halden, W., Czmiel, R. M., and Schauenstein, E., evaluation of vitamin-C, III, 335.
- Hale, C. H., determination of sodium in presence of molybdenum, I, 315.
- Hale, E. B., Davis, G. K., and Baldwin, H. R., distribution of nicotinic acids in feeds, III, 334. Chemical determination of nicotinic acid in plants, III, 334.
- Hale, V. See Opper, L.
- Halenz, H. F., and Botimer, L. W., methyl methacrylate as imbedding agent, III, 225.
- Hales, E. B., and Jordan, E. B., β -ray spectrum of antimony (124), I, 112.
- Haley, E. R., arteriosclerotic gangrene: refrigeration prior to amputation, III, 632.
- Haley, F. L., and Samuelson, G. S., vitamin-A and detoxication of monobromobenzene, III, 901.
- Hall, A. A., gastro-intestinal section—Army general hospital, III, 175.
- Hall, A. R., and Kaan, H. W., physiological development of thyroid gland of albino rat, III, 222.
- Hall, B. E. See Morlock, C. G.
- Hall, C. E. See Schmitt, F. O., and Selye, H.
- Hall, C. O. See Lamoreux, W. F.

- Hall, D. W. See Osgood, H.
- Hall, E. M., and Chaffin, L., malignant adenoma of parathyroid gland, III, 819.
- Hall, E. R., histological changes in carcinoma of prostate following resection and use of stilboestrol, III, 639.
- Hall, G. See Blanchard, R.
- Hall, G. E., aviation medicine in Royal Canadian Air Force, III, 381.
- Hall, G. J., excessive uterine bleeding: antagonad effect of prolactin, III, 115.
- Hall, J. A. See Grace, A.
- Hall, J. F., jun., adaptation of Marshall's micro-sulphonamide method to photoelectric colorimeter, III, 132.
- Hall, K. See Korenchevsky, V.
- Hall, M. B., nausea and vomiting of pregnancy, III, 888
- Hall, M. H. See Kohn, F.
- Hall, R. T. See McKinney, C. D., jun.
- Hall, S. A., and Palkin, S., efficient column suitable for vacuum fractionation; concentric tube type, I, 73.
- See also Palkin, S.
- Hall, S. R., and Nicolet, B. H., prolactin assay and data on anterior pituitary prolactin content of dairy and beef cattle and female rabbits in several physiological conditions, III, 482.
- See also Madsen, L. L.
- Hall, V. E., and Furth, J., metabolic studies in mouse leukaemia. I. Metabolism of lymph nodes in lymphoid leukaemia, III, 39.
- See also Lewis, J. J., and Turner, M. L.
- Halla, F., peculiarities of Weissenberg photographs of higher layer-lines, I, 53. Calculation of free energies of formation from ternary phase diagrams, I, 63.
- Neth, A., and Windmaisser, F., inorganic salts with a homogeneity range; tantalates (and niobates), I, 146.
- See also Weiner, R.
- Haller, H. L. See Schechter, M. S.
- Hallermayer, R. See Wieland, H.
- Hallett, L. T., organic microchemistry, II, 115.
- See also Royer, G. L.
- Halliday, E. G. See Puffer, M. E.
- Halliday, J. C., causes of blindness in children, III, 875.
- Hallimond, A. F., graphical representation of calciferous amphiboles, I, 243.
- See also Herroun, E. F.
- Hallinan, F. J., pyrex suspensions in turbidimetric and colorimetric determinations, III, 354.
- Hallman, E. T. See Langham, R. F.
- Hallman, F. A. See Kleiger, B.
- Hallman, L. F. See Deuel, H. J., jun., and Greeley, P. O.
- Hallpike, C. S. See Cawthorne, T. E., and Fitzgerald, G.
- Halma, F. F., leaf sap concentration and cold-resistance in avocado, III, 533.
- Halmos, I. See Foldi, Z.
- Halpern, S. R., and Cunningham, J., bacteriological and chemotherapeutic studies in acute diarrhoea of infants and children, III, 134.
- Halpert, B., morphological aspects of lung carcinoma, III, 492.
- Halpert, W. See Wagreich, H.
- Halpin, J. G. See Cravens, W. W.
- Halstead, W. C., Knox, G. W., and Walker, A. E., modification of cortical activity by intermittent photic stimulation in monkey, III, 796.
- Knox, G. W., Walker, A. E., and Woolf, Y. J., effects of intensity and wave-length on driving cortical activity in monkeys, III, 317.
- See also Walker, A. E.
- Halverstadt, I. F., and Kumler, W. D., solvent polarisation error and its elimination in calculating dipole moments, I, 121.
- Ham, G. C., and Rosenfield, M., ultracentrifugation of factors of posterior pituitary extracts, III, 113.
- Ham, W. E. See Lewis, K. H.
- Hamann, A., behaviour of cellulose fibres in the electron microscope, I, 127.
- Hamblen, E. C., androgen therapy in women, III, 120. Metabolism and utilisation of progesterone [in man], III, 563. Endocrine factors responsible for sterility in women, III, 649.
- Cuyler, W. K., Hirst, D. V., and Horner, V. O., effects of contraphysiologically administered diethylstilboestrol on menstrual cycle, III, 117.
- See also Cuyler, W. K., Davis, C. D., Hirst, D. V., and Pullen, R. L.
- Hambre, C. J., and An, M. H., normal haematologic values, III, 4.
- Hamburger, M., jun., Brookens, N. L., Eakin, E., and Ruegsegger, J. M., absorption, excretion, and distribution of 2-sulphanilamidoxyazine (sulphapyrazine) in man, III, 48.
- Grupen, E. S., Ruegsegger, J. M., Schmidt, L. H., and Sesler, C. L., sulphonamide resistance, III, 263.
- Hamburger, W. See Gayer, K.
- Hameen, J. H., fluorescence test for β -indolacetic acid, II, 148.
- Hamer, (Miss) F. M., and Rathbone, R. J., thiazinocyanines. II. Cyanines containing the dihydro-1:3-thiazine nucleus, II, 311.
- Hamer, W. J. See Bates, R. G.
- Hamermesh, B. See Dees, B. C.
- Hamilton, C. R. See Sandground, J. H.
- Hamilton, C. S. See Clark, R. L., and Mueller, A. C.
- Hamilton, F. E. See King, James D.
- Hamilton, H. A., and Wright, H. P., hypochromic anaemia during pregnancy, III, 226.
- Hamilton, H. L. See Plotz, H.
- Hamilton, J. See Loustalot, A. J.
- Hamilton, J. B. See Catchpole, H. R., Gilbert, J. B., and Reynolds, S. R. M.
- Hamilton, J. E. See Ambrose, A. M., and Weiss, M. M.
- Hamilton, J. G., use of radioactive tracers in biology and medicine, III, 505.
- Hamilton, J. W. See Hogan, A. G.
- Hamilton, N. E., use of pentothal sodium in intravenous anaesthesia, III, 344.
- Hamilton, P., glutamine-like substance in blood plasma, III, 160.
- Hamilton, P. B. See Archibald, R. M.
- Hamilton, P. M. See Frank, W. P., Knouf, E. G., and Togasaki, Y.
- Hamilton, R. H. See Oppenheimer, M. J.
- Hamilton, R. H., jun. See Spiegel-Adolf, M.
- Hamilton, S. L. See Kiely, W. F.
- Hamilton, T. S., effect of added glucose on digestibility of protein and of fibre in rations for sheep, III, 252.
- See also Mitchell, H. H.
- Hamilton, W. J., observations on living eggs of mammals, III, 809.
- Barnes, J., and Dodds, G. M., phases of maturation, fertilisation, and early development in man, III, 858.
- Hamilton-Paterson, J. L., Race, R. R., and Taylor, G. L., human iso-agglutinin anti-M, III, 370.
- See also Castleden, L. I. M.
- Hamlin, K. E., jun., and Hartung, W. H., synthesis of α -amino-acids from substituted acetoacetic esters, II, 55.
- See also Adams, R.
- Hamlin, L. H. See Lucia, S. P.
- Hamlin, L. M. See Aggeler, P. M.
- Hamlin, M. See Studi, J. V.
- Hamm, L., testosterone propionate in treatment of angina pectoris, III, 121.
- Hamm, W. J., retardation and neutralisation of argon ions in helium, I, 246.
- Hammar, H. E. See Alben, A. O.
- Hammer, B. W., and Long, H. F., bacterial growth in butter, III, 205.
- Hammes, E. M., periodical hypersomnia, hyperpyrexia, and hunger [as sequelæ to epidemic encephalitis], III, 467.
- Hammon, W. McD., Gray, M., and Reeves, W. C., mosquito vectors and inapparent animal reservoirs of St. Louis and Western equine encephalitis viruses, III, 440.
- And Izumi, E. M., Armstrong mouse-adapted poliomyelitis virus; effect of pH of inoculum and of "enteric organism filtrate," III, 695.
- Hammond, J. C. See Riley, G. M.
- Hammond, J. W. See Elkins, H. B.
- Hammouda, M., Samaan, A., and Wilson, W. H., origin of inflation and deflation pulmonary reflexes, III, 632.
- Hamner, K. C. See Ellis, Gordon H.
- Hamori, A., influence of high temperature on central regulation of respiration, III, 721.
- Hamperl, H., Henschke, U., and Schulze, R., skin-reactions in post-radiation erythema and in direct pigmentation, III, 271.
- Hampil, B., and Roberts, G. H., investigations on immunogenic properties of fixed rabies virus strains, III, 68.
- See also Gold, Herman.
- Hamre, D. M. See Jones, H. P., and Weiser, R. S.
- Hance, R. T. See Richards, A. G.
- Hancock, R. C. G., use of stilboestrol in pyometra in bitch, III, 172.
- Hand, L. V., and Sise, L. F., nupercaine anaesthesia, III, 344.
- Hand, W. C. See Lee, S. W.
- Handler, D. See Klein, J. R.
- Handler, P., effect of simultaneous mineral and choline deficiencies on liver-fat, III, 814.
- and Bernheim, F., effect of choline deficiency on fat content of regenerated liver, III, 654.
- and Dann, W. J. [with Branning, W. S., Gray, P., and Morrison, B. M.], biochemical defect in nicotinic acid deficiency, III, 42.
- See also Dann, W. J.
- Handley, C. A., Sweeney, H. M., and Brookman, B. T., metabolism in perfused dog's head during sodium pentobarbital depression and metrazol stimulation, III, 638.
- Hanemann, H., and Schrader, A., ternary systems of aluminium. III. Systems Al-Ni-Si, Al-Mg-Cr, Al-Cu-Ni, I, 88.
- Hanes, F. M., diagnostic criteria and resistance to therapy in sprue syndrome, III, 42.
- Haney, H. F., and Lindgren, A. J., emetic action of digitalis bodies and related compounds, III, 511.
- Haney, J. D. See Griswold, J.
- Hanford, Z. M. See Supplee, G. C.
- Hanley, B. J., and Golenternek, D., sulphanilamide in postabortal and puerperal infections, III, 263.
- Hanley, J. J. See Hickey, F. C.
- Hann, R. M., and Hudson, C. S., D-galactosan <1,5>><1,6>, II, 83.
- See also Haskins, W. T., and Merrill, (Miss) A. T.
- Hanna, C. M. See Clarke, J. R., jun.
- Hannay, N. B. See Lee, S. W.
- Hanselman, R. C., photo-electric colorimeter, III, 703.
- Hansen, A. E., Platou, R. V., and Dwan, P. F., prolonged use of sulphonamide compound in prevention of rheumatic recrudescences in children, III, 417.
- and Wiese, H. F. dogs on low-fat diet, III, 821.
- See also Birnberg, V. J.
- Hansen, G., development of prism spectroscope since the time of Kirchhoff and Bunsen, I, 43.
- Hansen, H. N. See Mrak, E. M.
- Hansen, L., and Kreidler, W. A., sulphabenamide. I. Blood levels and elimination in urine of uninfected rabbits. II. Therapeutic value, blood levels, and elimination in urine of rabbits infected with β haemolytic streptococci, III, 416.
- Hansen, L. P. See Cantarow, A.
- Hansen, P. A. See Margolena, L. A.
- Hansen-Pruss, O. C., and Raymond, R., skin reactivity during menstrual cycle, III, 28.
- Influence of menstrual cycle on titre of circulating allergins, III, 648.

- Hanson, A. J. See Eversole, W. G.
 Hanson, H. T. See Barnes, R. H.
 Hanszen, A. H. See Bergeim, O.
 Hanus, F. See Zinke, A.
 Happay, F., and Porter, A. W., crystal rotating device for use on a fibre spectrometer, I, 71.
 Happold, F. C. See Chattaway, F. W., and Dawson, J.
 Haraszi, E. See Prats, F.
 Harbach, F. O., postcaval ureter, III, 221.
 Hardegger, E. See Goldberg, M. W., and Ruzicka, L.
 Hardin, G. See Strain, H. H.
 Harding, G. F., devices to aid refraction, III, 730.
 Harding, H. G. W. See Donaldson, R.
 Harding, R. D., trial with 4:4'-diamidino-stilbene in treatment of sleeping sickness at Gadua, Northern Nigeria, III, 419.
 Hardman, Y., and Henrici, A. T., fresh-water bacteria. V. Distribution of *Siderocapsa treubii* in some lakes and streams, III, 212.
 Hardt, L. L., Weissman, M., and Coulter, J. S., gastric atrophy in far advanced pulmonary tuberculosis complicated by intestinal tuberculosis, III, 245.
 and Still, E. U., thiamin in sweat, III, 664.
 Hardwick, P. J., colorimetric determination of phosphorus by reduction of phosphomolybdate to molybdenum-blue, I, 235.
 Hardwick, S. W. See Caldwell, W. A.
 Hardy, A. V., bacteriostatic action of sulphadiazine on *E. typhosa*, III, 760.
 Burns, W., and DeCapito, T., cultural observations on relative efficacy of sulphonamides in *Shigella dysenteriae* infections, III, 759.
 and Cummins, S. D., clinical response to sulphadiazine therapy, III, 760.
 Watt, J., Peterson, J., Schlosser, E., and DeCapito, T., diagnosis and control of bacillary dysentery, III, 583.
 Hardy, L. M. See Abt, A. F., and Rambar, A. C.
 Hardy, M. B. See Lutz, H.
 Hare, C. E. See Heck, E. T.
 Hare, L. See Martin, Hugh E.
 Harford, C. G., and Bronfenbrenner, J., infection of mice by feeding with tissues containing virus of St. Louis encephalitis, III, 67.
 Hargett, M. V., Burruss, H. W., and Donovan, A., aqueous-base yellow fever vaccine, III, 610.
 Hargreaves, C. H. See Chen, K. K.
 Hargreaves, W. D. See Friend, J. N.
 Hariharan, P. S., scattering of light by liquid surfaces, I, 148. Scattering of light in binary liquid mixtures, I, 150. Elliptic polarisation of light scattered in silver sols, I, 152.
 Harkavy, J., manifestations of polyvalent sensitisation in vascular allergy, III, 549.
 Harker, D., structure of a metal during deformation, I, 32.
 See also Christ, C. L.
 Harkins, H. N., treatment of burns in wartime, III, 268. Study and management of traumatic shock, III, 870.
 Boals, R. T., and Brush, B., paradoxical blood-concentrating effect of intravenous 4 x normal plasma injections, III, 546.
 See also Chunn, C. F.
 Harkins, W. D., and Jura, G., area of a fine crystalline powder, I, 303. Adsorption isotherm over a wide range of pressure, I, 303. Area of a solid without assumption of a molecular area, and area occupied by nitrogen molecules on surfaces of solids, I, 303.
 Harkness, D. M., Muntwyler, E., Mautz, F. R., and Mellors, R. C., electrolyte and water exchange between skeletal muscle, "available (thiocyanate) fluid," and plasma in dog following administration of deoxycorticosterone acetate, III, 323.
 Harley, C. P., seasonal growth and dry matter accumulation in Winesap apple, III, 533.
 See also Lindner, R. C.
- Harman, D., Stewart, T. D., and Ruben, S., tracer studies with radioactive hydrogen; synthesis of labelled methyl iodide; Menschutkin reaction, I, 39.
 Harman, R. A. See Eyring, H.
 Harmon, P. H., and Kernwein, G., Congo-red test for amyloid disease, III, 193.
 Harms, H., dilute liquid mixtures, I, 58.
 Harned, B. K. See Cole, V. V.
 Harned, H. S., and Birdsall, C. M., acidic ionisation constant of glycine in dioxan-water solutions, I, 153. Basic ionisation constant of glycine in dioxan-water solutions, I, 257.
 Harnest, G. H., and Burger, A., tetrahydro-pyranyl amino-alcohols, II, 240.
 Harnly, M. H., temperature and wing-modifying genes in *Drosophila melanogaster*, III, 620.
 Harper, A. A., Mackay, I. F. S., Raper, H. S., and Camm, G. L., vitamins and physical fitness, III, 496.
 Harper, H. Y., and Feder, J. M., rhabdomyosarcoma, III, 251.
 Harper, P. V., jun. See Wald, G.
 Harper, S. H., active principles of leguminous fish-poison plants. VII. Reduction of elliptone. VIII. Synthesis of dehydro-tetrahydroelliptone and of dehydrotetrahydrodalmacol. IX. Synthesis of furanoisoflavones related to rotenone, II, 15.
 Harper, W. F., storage of trypan-blue in heart valves of the rabbit, III, 161.
 Harrel, C. G. See Hove, E. L.
 Harries, E. H. R. See Ende, M. van den.
 Harrington, M. T. iron pentacarbonyl as a solvent and reaction medium, I, 198.
 Harrington, S. W., and Miller, J. M., malignant changes in fibro-adenoma of mammary gland, III, 184. Mixed tumour (carcinosarcoma) of breast, III, 403. Fibro-sarcoma of mammary gland, III, 403.
 See also Schmidt, Herbert W.
 Harris, A. E. See Chapman, O. D.
 Harris, A. H., experiments with collodion sacs on inhibition of bacterial growth *in vitro*, III, 602.
 and McClure, G. Y., use of detergent in solubility tests for identification of pneumococci, III, 146.
 See also Davis, J. E.
 Harris, A. H., jun. See Rogers, E. S.
 Harris, C. E. See Cromwell, N. H.
 Harris, D. M. See Jordan, C. F.
 Harris, F. I., and Meyer, M. A., pleural effusion associated with ovarian fibroma (Meigs' syndrome), III, 810.
 Harris, G. H. See Noller, C. R.
 Harris, G. M., Schneider, W. G., and Thorvaldsson, T., hydration of calcium aluminates. IV. Hydrothermal reactions of tricalcium aluminate and its hydrates, I, 261.
 Harris, H. A., Neuberger, A., and Sanger, F., lysine deficiency in young rats, III, 900.
 Harris, H. E. See Van Ordstrand, H. S.
 Harris, I., composition of chlorine hydrate, I, 160.
 Harris, J. See Hechter, O.
 Harris, J. S., and Kohn, H. I., chronic toxicity of sulphanilamides in growing rats as influenced by type of diet, addition of faeces to diet, and appetite, III, 831.
 See also Kohn, H. I.
 Harris, L. C. See Gear, J.
 Harris, Lewis E., and Duis, B., determination of nicotinic acid and sodium nicotinate, II, 148.
 Harris, Linden E. See Beasley, J. L., jun.
 Harris, L. J., vitamin-C saturation test: standardisation measurements at graded levels of intake, III, 335. Mineral and vitamin requirements in relation to wartime dietary, III, 821. Vitamin-C saturation test, III, 826.
 and Olliver, M., vitamin-C intakes at residential home, III, 754.
 See also Peters, R. A.
- Harris, M., rôle of humoral antagonism in heteroplastic transplantation in mammals III, 860.
 See also Rutherford, H. A., and Sockne A. M.
 Harris, P. L. See Jensen, J. L., Joffe, M., and Remington, R. E.
 Harris, P. N., Anderson, Robert C., and Chen K. K., action of riddelline, III, 909.
 Harris, R. R. See Chapman, R. P.
 Harris, R. S., Mosher, L. M., and Bunker, J. W. M., nutritional availability of iron in molasses, III, 751.
 See also Josephson, E. S.
 Harris, S. A. See Mozingo, R.
 Harris, S. C. See Gray, J. S., and Ivy, A. C.
 Harris, T. N., lethal agent produced by haemolytic streptococcus, III, 357.
 Sommer, H. E., and Chapelle, C. C., administration of sulphonamide micro-crystals by inhalation, III, 585.
 See also Chambers, L. A., and Ehrich, W. E.
 Harris, W., effect of roentgen therapy in primary cancer of breast, III, 595.
 Harris, Wilfred, trigeminal neuralgia at early age cured by Gasserian alcohol injection, III, 873.
 Harris, W. D. See Wolfrom, M. L.
 Harris, W. E. See Hume, D. N.
 Harris, W. H., jun., comparison of pathologic observations in Weil's disease and in yellow fever, III, 211. Histologic analogy of bronchial adenoma to late prenatal and early postnatal structures, III, 332.
 and Schattenberg, H. J., anlagen and rest tumours of lung inclusive of "mixed tumours" (Womack and Graham), III, 403.
 See also Schattenberg, H. J., and Tillett W. S.
 Harrison, C. E. See Senturia, B. H.
 Harrison, C. V. See Meyrick, L. D.
 Harrison, F., and Corbin, K. B., oscillographic studies on spinal tract of fifth cranial nerve, III, 795.
 See also Corbin, K. B.
 Harrison, G. A. See Ackroyd, S.
 Harrison, G. E., thermal diffusion of radon-gas mixtures, I, 57.
 Harrison, H. C., and Ralph, C. C., briquetting press and electrode loader for spectrochemical analysis, I, 265.
 Harrison, Helen C., and Harrison, H. E., effect of saline extract of anterior pituitary on glucose tolerance of rats, III, 170.
 See also Harrison, H. E.
 Harrison, H. E., and Harrison, Helen C., comparison of physiological effects of dihydrotachysterol and vitamin-D in rachitic and normal dog, III, 335.
 See also Harrison, Helen C., and Lake, M.
 Harrison, J. H., prostatic surgery in presence of cardiac disease, III, 244.
 See also Cutler, E. C.
 Harrison, J. W. H., Blackburn, K. B., and Bolton, E., vitamin-C and chromosome number in Rosa, III, 74.
 Harrison, N. B. See Turner, W. J.
 Harrison, T. R., chest pain, III, 459.
 See also Grollman, A.
 Harrison, W. S. W., Peters, A. T., and Rowe, F. M., polyhalogeno-o-anisidines and their derivatives, II, 227.
 Harrison, J. W. E. See Le Galley, D. P.
 Harold, G. C. See McCord, C. P., and Meek, S. F.
 Harryman, W. K. See Johnson, F. H.
 Harshbarger, K. E., toxicity of several food-preserving agents, III, 765.
 Hart, A. B., and Partington, J. R., dissociation pressures of compounds of ammonia and trideuteriammonia with metallic salts, I, 153.
 Hart, D. See Woodhall, B.
 Hart, E. B., comparative nutritive value of butter fat and vegetable oils, III, 405.
 See also Briggs, G. M., jun., Cravens, W. W., Hegsted, D. M., Sober, H. A., Teresi, J. D., and Wegner, M. I.
 Hart, E. R. See Gruber, C. M.

- Hart, G. H. See Cole, H. H.
 Hart, J. F. See Lisa, J. R.
 Hart, J. S., cardiac output of four freshwater fish, III, 629.
 Hart, M. J. See Loofbourou, J. R.
 Hart, R. T. See Iddles, H. A.
 Hart, W. F. See Niederl, J. B.
 Harteck, P., and Jensen, Hans, reaction velocity with colloidal catalysts, I, 132.
 See also Groth, W.
 Hartley, G., local formation of antivaccinal antibodies by skin, III, 68.
 Hartley, J. B., and Burnett, C. W. F., craniolacunia, III, 366.
 Hartline, H. K., neural mechanisms of vision, III, 554.
 See also Abbott, W. O.
 Hartman, A. M., and Cary, C. A., occurrence and importance of still-unidentified nutrients in milk and milk products, III, 501.
 Hartman, C. G., attempts to cause ovulation by means of gonadotropes in adult rhesus monkey, III, 650.
 Hartman, F. A., Lewis, L. A., Thatcher, J. S., and Street, H. R., effect of adrenal factors on plasma-proteins, III, 23.
 Smith, D. E., and Lewis, L. A., adrenal functions in opossum, III, 807.
 See also Edelmann, A., and Smith, D. E.
 Hartman, R. J. See Gassman, A. G.
 Hartmann, A. F., Kendall, B. S., Love, F. M., and Wolff, D., haemolytic streptococcal meningitis [treatment with sulphonamide], III, 339.
 Love, F., and Wolff, D., [sulphonamides for] lateral sinus phlebitis, III, 339.
 See also Barnett, H. L.
 Hartmann, E., acetylcholine in ophthalmology and relief of ocular pain, III, 101.
 Hartmann, E. L. See Wall, R. F.
 Hartmann, H., dipole swarm formation in solution, I, 58. Dipole swarm formation and dielectric polarisation, I, 150.
 Hartmann, Hermann, Chytrek, E., and Ammon, R., fluorine content of human blood, III, 376.
 Hartnagel, J. See Mohler, H.
 Hartree, E. F. See Keilin, D.
 Hartridge, H., physiology of colour vision, III, 386, 732. Strange case of Mr. Huxley's eyes, III, 731.
 Hartsock, C. L., diagnosis and treatment of brucellosis (undulant fever), III, 140.
 Hartt, C. E., sugar transformations in the plant, III, 217.
 Hartt, S. See Hawks, J. E.
 Hartung, A. See Vogel, R.
 Hartung, E. W., effect of Roentgen radiation on tumour incidence in *Drosophila melanogaster*, III, 571.
 Hartung, W. H. See Hamlin, K. E., jun., and Levin, N.
 Hartwell, J. L., and Stewart, H. L., action of 5:9:10-trimethyl-1:2-benzanthracene on skin of mouse, III, 401.
 Hartwig, S. See Butenandt, A.
 Hartz, P. H., and Hugenholtz, M. J., mitotic activity in uterine leiomyomas, III, 242.
 and Van de Stadt, F. R., occurrence of protozoan-like cells in biopsy from anus, III, 660.
 Hartzell, A., adult life span animal feeding experiments with thiourea, III, 347.
 Hartzell, H. V. See Williams, A. J.
 Hartzler, E. R. See Brown, R. A., and Emmett, A. D.
 Harvey, A. M., Lilienthal, J. L., jun., and Talbot, S. A., myasthenia gravis: effect of thymectomy on neuromuscular transmission, III, 307.
 and Masland, R. L., action of curarising preparations in man, III, 198.
 Harvey, C. O., micro-analysis of boracite, I, 235.
 Harvey, E. B., maternal inheritance in echinoderm hybrids, III, 451.
 Haworth, K., and Kirkpatrick, P., intensities of monochromatic continuous X-rays from atomic targets of nickel, I, 45.
 Hasan-Zade, G. R. See Turova-Poljak, M. B.
 Hase, M. See Helferich, B.
 Haskellberg, L. See Hirshberg, Y.
 Haskins, A. L., jun. See Syvertson, J. T.
 Haskins, W. T., Hann, R. M., and Hudson, C. S., synthesis of epilactose and lactose, II, 24. β -D- and a second dimethylene-D-mannitol, II, 150. Crystalline 4-methyl-D-mannose and its derivatives, II, 154. β -Dibenzylidene-D-mannitol and its derivatives, II, 317.
 Hasler, A. D., and Meyer, R. K., respiratory responses of normal and castrated goldfish to teleost and mammalian hormones, III, 890.
 Haslewood, G. A. D., preparation of deoxycholic acid from cholic acid, II, 199, 304.
 Hass, G. M., isolation of elastic tissue, III, 157. Elasticity and tensile strength of elastic tissue isolated from human aorta, III, 379. Relations between structure of ageing aorta and properties of isolated aortic elastic tissue, III, 379. Morphological and chemical analysis of ageing human costal cartilage, III, 857.
 Huntington, R., and Krumbiegel, N., properties of amyloid deposits occurring in several species under diverse conditions, III, 905.
 Hasselquist, H. See Adler, Erich, and Euler, H. von.
 Hassett, C. C. See Denslow, J. S.
 Hassid, W. Z., Baker, E. E., and McCready, R. M., immunologically active polysaccharide produced by *Coccidioides immitis*, Rixford and Gilchrist, III, 845.
 Cory, G. T., and McCready, R. M., constitution of polysaccharide synthesised by action of crystalline muscle-phosphorylase, II, 221.
 and McCready, R. M., molecular constitution of enzymically synthesised starch, II, 25. Molecular constitution of amylose and amylopectin of potato starch, II, 295. Separation and determination of amylose and amylopectin in potato starch, II, 295.
 See also Doudoroff, M.
 Hastings, A. B., and Buchanan, J. M., role of intracellular cations in liver-glycogen formation *in vitro*, III, 247.
 See also Anfinsen, C. B., Buchanan, J. M., and Tabor, H.
 Hastings, E. G. See McCarter, J. R.
 Hastings, J. M. See Bauer, S. H.
 Hatcher, E. S. J., auxin production during development of the grain in cereals, III, 445.
 Haterius, H. O. See Bourque, J. E.
 Hathaway, E. See Scott, T. F. M.
 Hathi, H. J., aniridia, III, 385.
 Hatschek, R. See Waldschmidt-Leitz, E.
 Hatz, B. E. See Rusznyak, S.
 Hatz, E. B. See Szecsenyi-Nagy, L.
 Hauben, S. S., and Siegel, R. S., demonstration of the oxidation of ammonia to nitric acid, I, 261.
 Hauck, H. M. See Lewis, J. S., and Storwick, C. A.
 Haugaard, N., and Irving, L., influence of temperature on oxygen consumption of cunner fish in summer and winter, III, 504.
 See also Scholander, P. F.
 Haugaard, R., and Roberts, R. M., heats of organic reactions. XIV. Digestion of β -lactoglobulin by pepsin, I, 63.
 Hauge, S. M. See Hilton, J. H.
 Haugen, G. E. See Friedemann, T. E.
 Hauptmann, H., and França, J., cafestrol. II, II, 166.
 França, J., and Bruck-Lacerda, L., oestrogenic activity of cafestrol, III, 739, 889.
 Haurovitz, F., Tunca, M., and Schwerin, P., failure of azogelatin as an antigen, III, 696.
 Hauschildt, J. D. See Evans, J. S.
 Hauser, C. R., Abramovitch, B., and Adams, J. T., condensations. XVIII. Acylation of the anions of esters with ethyl carbonate, II, 119.
 See also Abramovitch, B., Adams, J. T., Ayres, E. B., Shivers, J. C., and Skell, P.
 Hauser, H., cancer of lung in infant, III, 129.
 Hausmann, W. See Hill, J. N.
 Havemann, R., photo-electric colorimeter. II., I, 286.
 Haven, F. L., and Levy, S. R., phospholipins of tumour cells and nuclei, III, 491.
 Havens, W. P., Watson, D. W., Green, R. H., Lavin, G. I., and Smadel, J. E., complement fixation with the neurotropic viruses, III, 359.
 Haward, R. N. See White, T.
 Hawes, R. C., and Skavinski, E. R., diffusion micro-method for [determination of] nitrogen, I, 99.
 Small, W. S., and Miller, H., apparatus for determining pollen content of air and notes on pollen survey methods, III, 926.
 See also Small, W. S.
 Hawfield, H. See Smith, S. G.
 Hawk, G. W., and Woodhouse, K. W., acute appendicitis, simple and complicated, III, 125.
 Hawker, L. E., effect of vitamin-B₁ on concentration of glucose optimal for fruiting of fungi, III, 149.
 Hawkes, J. G., effects of colchicine on cell division, III, 3.
 Hawking, F., histological reactions to oils and sulphonamide preparations, III, 342. Drug-resistance acquired during treatment of sleeping-sickness with tryparsamide and with Bayer 205, III, 419. Sulphonamides and experimental infected wounds, III, 509. Standardisation of therapeutic potency of neoarsphenamine and sulpharsphenamine, III, 514.
 and Hunt, A. H., absorption of sulphonamides from wounds in man, III, 509.
 and Smiles, J., distribution of 4:4'-diaminodistilbene in trypanosomes and mice as shown by fluorescence, III, 137.
 See also McIlwain, H.
 Hawkins, J. E. See Fuguit, R. E., and Stalcup, W. D.
 Hawkins, W. L., and Elderfield, R. C., *Alstonia* alkaloids. II. New alkaloid, alstoniline, from *A. constricta*, II, 112.
 See also Evans, T. H., and Levi, I.
 Hawkinson, L. F., ovarian hypofunction before climacteric, III, 325.
 Hawks, J. E., Bray, M. M., Dye, M., Hartt, S., and Whitemore, M. B., potassium, sodium, and chlorine balances of pre-school children receiving medium- and high-protein diets, III, 404.
 Bray, M. M., Dye, M., and Wilde, M. O., interrelationship of calcium, phosphorus, and nitrogen in metabolism of pre-school children, III, 415.
 Hawksley, L. M. See Bonser, G. M.
 Hawley, J. E., origin of siderite, pyrite, chert deposits, Michipicoten district, Ontario, I, 170.
 Hawley, W. L. See Scott, T. F. M.
 Hawn, C. v. Z. See Bailey, O. T.
 Haworth, J., and Duff, A., trichloroethylene anaesthesia, III, 512.
 Haworth, J. W. See Elks, J.
 Haworth, R. D., Jones, B., and Way, Y. M., synthesis of 4-hydroxy-2-naphthoic acids, II, 91.
 Hazel, O., and Volz, H., absorption of neutrons in aqueous solutions; calculation of neutron absorption in the interior of a sphere, I, 270.
 See also Haeman, D.
 Hay, A. W., and Winkler, C. A., mercury-photosensitised decomposition of *n*-butane, I, 311.
 Hay, J. R. See Kakavas, J. C.
 Hay, M. W. E. See Murphy, W. P.
 Haydak, M. H., Palmer, L. S., and Tanquary, M. C., role of honey in prevention and cure of nutritional anaemia in rats, III, 225.
 Palmer, L. S., Tanquary, M. C., and Vinino, A. E., vitamin control of honeys, III, 406.
 Hayden, C. T. See Morton, D. G.
 Hayes, F. R., and Armstrong, F. H., growth of salmon embryo, III, 367. Physical changes in constituent parts of developing salmon eggs, III, 561.

- Hayes, H. T., Burr, H. B., and Pruitt, L. T., lymphoid tumours of colon and rectum, III, 403.
- Hayes, M. See Albanese, A. A.
- Hayman, J. M., physiology of chronic nephritis, III, 894.
- Hayman, J. M., jun., and Rose, F. A., rack and tubes for determining sedimentation rate, III, 622.
- Hayman, M., myasthenia gravis and psychosis, III, 96.
- Haynes, A., and Rigdon, R. H., statistical study of number of white blood cells in blood of rabbit, III, 5.
- Haynes, E. See Tomkins, C. A.
- Haynes, F. W. See Schales, O.
- Hays, H. W. See Drill, V. A., and Remington, J. W.
- Hays, J. T. See Niemann, C.
- Hayward, H. E., and Long, E. M., anatomical and physiological responses of tomato to varying concentrations of sodium chloride, sodium sulphate, and nutrient solutions, III, 72.
- Hayward, N. J., identification of *Cl. welchii* by Nagler tests in plate cultures, III, 920.
- and Miles, A. A., iron media for cultivation of anaerobic bacteria in air, III, 917.
- Haywood, C., and Clapp, M. J., urine of freshwater fishes, III, 894.
- Hazen, W. E., specific primary ionisation of cosmic rays in helium, I, 174. Cosmic-ray stars at 10,000 feet, I, 190. Electrons in equilibrium with penetrating component of cosmic rays in lead at 10,000 feet and at sea level, I, 294.
- Hazlehurst, T. H., measurement of surface tension; laboratory experiment, I, 103.
- and Fornoff, F. J. representation of periodic properties of the elements, I, 241.
- Hazlet, S. E., Hensley, L. C., and Jass, H., bromination of 4-diphenyl chloroacetate, II, 59.
- and Morrow, R. W., compound formation between the isomeric hydroxydiphenyls and pyridine, II, 88.
- Stauffer, D. A., and Van Orden, H. O., *p*-toluenesulphonates of nitro-4-phenylphenols, II, 129.
- and Van Orden, H. O., nitration of 4-diphenyl benzoate, II, 61.
- See also Hensley, L. C.
- Hazleton, L. W., and Fortunato, F., elimination of strichnine, III, 138.
- Healey, D. R. See Bates, L. F.
- Heard, K. M., anaesthesia in Caesarean section, III, 196.
- Hearon, W. M., Hiatt, G. D., and Fordyce, C. R., carbamates of cellulose and cellulose acetate. I. Preparation. II. Stability towards hydrolysis, II, 257.
- Heath, C. W., iron in nutrition, III, 455.
- See also Brouha, L.
- Heath, F. K., and Province, W. D., sulphonamides and preservation of human plasma, III, 132.
- Heaton, C. D. See Geissman, T. A.
- Hebbel, R., chronic gastritis, its relation to gastric and duodenal ulcer and to gastric carcinoma, III, 492.
- Hecht, G., determination of blood-calcium, III, 88.
- Hecht, P. See Altschuler, S. S.
- Hecht, R., Schwarzschild, L., and Sulzberger, M. B., sensitisation to [lipstick] dyes, III, 216.
- Hecht, S., Shlaer, S., and Pirenne, N. H., energy, quanta, and vision, III, 18.
- Hechter, O., Krohn, L., and Harris, J., role of adrenals in production of traumatic shock in rats, III, 108.
- Heck, E. T., Hare, C. E., and Hoskins, H. A., origin and geochemistry of connate waters in West Virginia, I, 321.
- Heckel, G. P., pregnanediol excretion in normal women, III, 482.
- Heckel, N. J., and Kretschmer, H. L., stilboestrol and carcinoma of prostate, III, 392.
- Hecker, M. D. See Siegel, M.
- Hedberg, K. W. See Petersen, J. W.
- Hedger, F. H. See Means, J. A.
- Hedin, R. F., polyploid disease of colon [colon dimensions], III, 329.
- Hedley, O. F., fraudulent use of digitalis to stimulate heart disease, III, 675.
- Hedlund, I., velocity of hydrolysis of sulphonyl chlorides, I, 157.
- Hedwall, J. A., and Ahlgren, G. A., activation of catalysts by electric waves, I, 94.
- Isakson, N., Lander, G., and Palsson, S., reactions below 800° in powdered mixtures of lime with lead and manganese silicates used in the glass industry, I, 282.
- See also Cohn, G.
- Heegaard, E. V., and Alles, G. A., inhibitor specificity of amine oxidase, III, 518.
- See also Alles, G. A.
- Heersema, P. H., hyperthermia in management of tetanus, III, 596.
- Hegarty, C. P., physiological youth as an important factor in adaptive enzyme formation, III, 213.
- See also Stern, R. M.
- Hegediüs, B. See Ruggli, P.
- Heggie, J. F., Kendall, A. W., and Heggie, R. M., sulphonamides for infected bone injuries, III, 509.
- Heggie, R. M. See Heggie, J. F., and Hodgson, R.
- Hegglin, R. See Löffler, W.
- Hegner, P., and Reichstein, T., constituents of adrenal cortex and related substances. LX. Δ^{11} -Dehydroprogesterone. LXI. 11-Ketoprogesterone, II, 271.
- Hegsted, D. M., Mills, R. C., Briggs, G. M., jun., Elvehjem, C. A., and Hart, E. B., biotin in chick nutrition, III, 256.
- Hehre, E. J., and Sugg, J. Y., serologically reactive polysaccharides produced by bacterial enzymes. I. Dextran of *Leuconostoc mesenteroides* from sucrose, III, 442.
- Heide, A. See Witebsky, E.
- Heide, C. van der, [psychoanalysis in] peptic ulcer, III, 124.
- Heidelberger, M., complement titrations in human sera, III, 547.
- and Hobby, G. L., oxidised cotton, an immunologically specific polysaccharide, III, 360.
- and Mayer, Manfred, quantitative chemical studies on complement or alexin, III, 374.
- See also Treffers, H. P.
- Heidenreich, R. D., electron reflexions in MgO crystals with the electron microscope, I, 7.
- and Peck, V. G., electron-microscope study of surface structure, I, 8. Fine structure of metallic surfaces with the electron microscope, I, 166.
- Heikes, N. L., constant pressure and flow ratio regulator for continuously mixing two gases, I, 168.
- Heilbron, I. M., Johnson, A. W., Jones, E. R. H., and Raphael, R. A., polyene series. X. Condensation of γ -methyl- $\Delta^{\beta\beta}$ -penteninene ($\alpha\beta$ -dimethylvinylacetylene) with butaldehyde, crotonaldehyde, and citral; anionotropic rearrangements with vinylacetylenecarbinols derived from $\alpha\beta$ -unsaturated aldehydes, II, 249.
- Johnson, A. W., Jones, E. R. H., and Spinks, A., polyene series. V. Employment of γ -2:6:6-trimethyl- Δ^1 -cyclohexenyl- α -methylcroton-aldehyde for the synthesis of vitamin-A and analogues, II, 60.
- Jones, E. R. H., and Koch, H. P., polyene series. VII. Carbinols from propargyl acetal, II, 54.
- Jones, E. R. H., and Raphael, R. A., polyene series. IX. Condensation product of Δ^a -hexinene with crotonaldehyde and its anionotropic rearrangement. XI. Anionotropic rearrangements of the acetylenic glycol from crotonaldehyde, II, 249.
- See also Catch, J. R., Coates, H., and Cook, A. H.
- Heilbrunn, G. See Felsenfeld, O.
- Heilig, R., and Kantiengar, N. L., liver function in menstruation, III, 36.
- Heilman, D. See Herrell, W. E., and Mann, F. C.
- Heilman, F. R., *Asterococcus muris* (*Streptobacillus moniliformis*). I. Morphology and nomenclature. II. Cultivation and biochemical activities, III, 284.
- Heim, J. W., medical problems in modern air travel, III, 269.
- Heiman, J., comparative effects of oestrogen, testosterone, and progesterone on benign mammary tumours of the rat, III, 749.
- Heiman, M., riboflavin: significance of its photodynamic action and importance of its properties for the visual act, III, 167.
- Heimann, H., toxicity of metallic silver, III, 594. Health hazards in fur industry, III, 914.
- See also Greenburg, L.
- Heimann, W. See Taufel, K.
- Heimbach, S. See under Heimbach-Juhasz, S.
- Heimbach-Juhasz, S. See Prelog, V.
- Heimerzheim, C. J., hydrogen sulphide generator (Kipp principle), I, 266.
- Hein, F., and Holzapfel, H., basic bismuth permanganates, I, 261.
- and Kraft, H., reactions of ethers with chromous halides, II, 290.
- and Pohlth, H., reactions of organometallic compounds with iron pentacarbonyl and iron carbonyl hydride, I, 261.
- Heinbecker, P., White, H. L., and Rolf, D., relation of adeno- and neuro-hypophysis to insulin sensitivity and sugar tolerance in dogs, III, 240.
- See also Barnett, H. L., and White, H. L.
- Heine, W. T. See Blumberg, N.
- Heinemann, H. See La Lande, W. A., jun.
- Heinemann, M., distribution of sulphonamide compounds between cells and serum of human blood, III, 339.
- Heinisch, H. See Taufel, K.
- Heinrich, P. See Meyer, K. H.
- Heintz, E., physical effects of exponentially diluted substances at very low concentrations, I, 150.
- Heinrich, H., chemotherapeutic agents of sulphonamide group, III, 48.
- Heise, F. H. See Steenken, W., jun.
- Heise, M. D., and Starin, W. A., effect of azochloroamides on physiologically active products of staphylococci, III, 147.
- Heisenberg, W., "observable magnitudes" in theory of elementary particles, I, 271.
- Heisig, G. B., pyrex brand glass wool as a filtering medium, I, 44.
- Heitzmann, P., reduction of acetoacetic acid by Lemoigne's *Bacillus M.*, III, 279.
- Heiwinkel, H. See Hagglund, E.
- Hekhuis, G. L. See Cohen, P. P.
- Heki, M. See Wieland, H.
- Helbig, E., dependence of column ionisation by α -rays on pressure, I, 219.
- Held, I. W., and Chasnoff, J., giant follicular lymphoblastoma (giant lymph follicle hyperplasia), III, 40.
- Helfenstein, A. See Stoll, A.
- Hellerich, B., and Goerdeler, J., synthesis of β -d-glucosides, II, 255.
- and Hase, M., emulsin. XLVI. Action of salts on sweet almond emulsin, III, 57.
- and Jochinke, H., esters of methanesulphonic acid in the sugar group. IV., II, 355.
- and Papalambrou, P., synthesis of 3- β -d-glucosidoprotocatechualdehyde and its enzymic fission, II, 4. Masking of phenolic hydroxyl groups by esterification with methanesulphonic acid, II, 8.
- and Werner, J., stabilisation of glycosidic linking by anhydride formation, II, 84.
- Helf, O. M., amphibian metamorphosis, XVII., III, 78.
- Hellbaum, A. A., and Greep, R. O., qualitative changes induced in gonadotropic complex of pituitary by testosterone propionate, III, 564.
- Hellbrügge, J. See Endell, K.

- Hellendall, H., experimental transmission of lymphogranuloma venereum virus through placenta. III, 441.
- Heller, C. G., and Chandler, R. E., gonadotropic hormone: modification of alcohol-precipitation assay method. III, 32.
- and Heller, E. J., metabolism of oestrogens: effect of pregnancy on metabolism *in vitro* of oestrone, oestradiol, and oestriol. III, 563.
- Heller, E. J. See Heller, C. G.
- Heller, E. L., tuberculoid reaction in ovarian dysgerminoma. III, 647.
- Heller, H., posterior pituitary gland principles of grass snake (*Tropidonotus patrix*). III, 113. Renal excretion of pituitary (posterior lobe) extracts. III, 561.
- Heller, V. G. See Penquite, R.
- Heller, W., reversible aggregations of colloidal particles. III. Isothermal reversible sol syneresis. I, 90.
- Quimby, (Miss) G., and Ta, Y., magnetic and optical anisotropy of selected microscopic crystals and the linear magneto-optical anisotropy of their suspensions. I, 83.
- Hellerman, L., Chinard, F. P., and Deitz, F. R., protein thiol groups and the reversible inactivation of urease; reducing groups of ovalbumin and of urease. III, 598.
- Hellman, L. M., Shettles, L. B., and Stran, H., determination of sodium pentothal in blood. III, 763.
- Hellwege, K. H., measurement of atomic radiation fields in crystals. I, 84.
- and Roever, A., combination frequencies in the electronic-vibrational spectrum of rare earth salts. I, 216.
- Hellwig, C. A., diffuse colloid goitre. III, 321. Standardised toxicological tests for clinical laboratories. III, 679. Extramedullary plasma cell tumours as observed in various locations. III, 820.
- and Reed, H. L., fatal anuria following sulphadiazine. III, 265.
- Helm, J. D. See Machella, T. E.
- Helm, J. D., *jun.*, predictability of character of erythrocyte sedimentation rate. III, 454.
- Helmer, O. M. See Page, I. H.
- Helmert, E. See Wagner-Jauregg, T.
- Helmholz, H. F., effects of urinary antiseptics on strains of *E. coli*. III, 673.
- Helming, O. See Edwards, W. M.
- Helmke, K., premortal variations in blood concentration. III, 226. (Esophageal hypertrophy. III, 244. Collapse of cells. III, 365.)
- Helpert, M., and Strassmann, G., differentiation of foetal and adult human haemoglobin. III, 624.
- Helwig, E. B. See MacBryde, C. M.
- Hemeon, W. C. L., and Evans, R. D., ventilation requirements for radium dial painting. III, 270.
- Hemingway, A., and Sparrow, A., toxicity of acetates for rats. III, 347.
- See also Olsen, N. S.
- Heimmeier, G., hypochromic anaemia following stomach resection. III, 623.
- Hempelmann, L. H., *jun.* See Brown, F. A., *jun.*
- Hemphill, F., Koenig, R. A., and Winters, J., nutritive adequacy of low-cost food mixtures. III, 821.
- Hemphill, J. E., cerebral arteriography. III, 378.
- Hemphill, R. E., electrical convulsion therapy. III, 234. Hyperthyroidic catatonia. III, 728.
- and Walter, W. G., treatment of mental disorders by electrically induced convulsions. III, 234.
- Henderson, A. F. See Alyea, E. P.
- Henderson, F. G., and Chen, K. K., pharmacology of gelsemine and dihydro-gelsemine. III, 764.
- See also Anderson, Robert C., and Failey, R. B.
- Henderson, H. J., comparison of glycerol and trehalose as nutrients for growth of tubercle bacilli. III, 358.
- Henderson, H. O. See Moore, E. N.
- Henderson, J. E. See Wyckoff, H. O.
- Henderson, J. F., structure and metamorphism of Early Precambrian rocks between Gordon and Great Slave lakes, North West Territories. I, 268.
- Henderson, J. L., erythroblastosis [foetalis] or congenital syphilis; differential diagnosis. III, 32. Sulphaquanidine in neonatal gastro-enteritis. III, 508.
- Henderson, J. M., relation of sunlight to desert sores. III, 680.
- Henderson, L. M., McIntyre, J. M., Waisman, H. A., and Elvehjem, C. A., pantothenic acid in nutrition of rat. III, 42.
- See also Waisman, H. A.
- Henderson, S. G., and Bryant, W. W., *jun.*, roentgenology of colon in newborn. III, 178.
- Henderson, W. M. See Slaughter, D.
- Hendrick, I., psychoanalytic observations on aurore of 2 cases with convulsions. III, 99.
- Hendricks, B. C. See Bundle, R. E.
- Hendricks, S. B., and Hill, W. L., inorganic constituents of bone. III, 400.
- See also Alexander, L. T., and Hill, W. L.
- Hendry, J. L., haemolytic streptococci from horse treated with sulphanilamide after streptococcal bacteraemia developed during immunisation. III, 213.
- Hendry, N. W. See Wilson, H. D. B.
- Hendus, H., structures of explosive antimony and vitreous selenium. I, 83.
- Henle, G., and Zittle, C. A., metabolism of bovine epididymal spermatozoa. III, 33.
- Henle, W., Sommer, H. E., and Stokes, J., *jun.*, effects of ultra-violet irradiation and propylene glycol vaporisation on prevention of experimental air-borne infection of mice by droplet nuclei. III, 430.
- See also Chambers, L. A., Foster, C., and Stokes, J., *jun.*
- Henne, A. L., and Hill, P., preparation of aldehydes, ketones, and acids by ozone oxidation. II, 252.
- and Plueddemann, E. P., addition of hydrogen fluoride to acetylenic compounds. II, 213. Addition of hydrogen fluoride to halogeno-olefines. II, 317.
- Hennion, G. F., and Kurtz, R. A., organic reactions with boron fluoride. XXVI. Friedel-Crafts type alkylations with boron trifluoride. II, 296.
- and McLeese, S. P. de C., Friedel-Crafts acylations of sterically hindered alkyl-benzenes. II, 85.
- and Pieronek, V. R., organic reactions with boron trifluoride. XXVII. Boron trifluoride-catalysed alkylations of halogeno-benzenes. II, 125.
- Henny, G. C. See Spiegel, E. A., and Spiegel-Adolf, M.
- Henrich, L. R., radiation pressure in point-source stellar model. I, 110. Polarisation of H⁻. I, 111.
- Henrici, A. T., yeasts, genetics, cytology, variation, classification, and identification. III, 202.
- See also Hardman, Y.
- Henrikson, E., [resection of] superior hypogastric plexus in gynaecology. III, 811.
- Henry, A. J., and Grindley, D. N., fluorescence and adsorption of stilbamidine and its estimation in biological fluids. III, 265.
- Henry, B. W., Biker, A. J., and Duggar, B. M., thiamin in crown gall as measured with *Phycomyces* assay. III, 927.
- Henry, C. E. See Lindsey, D. B.
- Henry, E. C. See Mitchell, L.
- Henry, J. P., quantitative studies of photochemical depreciation of horse serum. III, 375.
- Henry, K. M. See Bacharach, A. L. and Macrae, T. F.
- Henry, N. F. M. See Evans, R. C.
- Henry, R. A., and Dehn, W. M., aryl diazomorpholides. II, 245.
- Henschke, A. F., diet and muscular fatigue. III, 465.
- See also Keys, A., and Samuels, L. T.
- Henschke, U. See Hamperl, H.
- Hensel, H. M. See Alschuler, S. S.
- Hensen, M., effect of Roentgen irradiation of sperms on embryonic development of albino rat. III, 615.
- Henshall, T., catalytic hydrogenation of dimedone (dimethylidihydroresorcinol), and a preparation of 1:1-dimethylcyclopentane. II, 365.
- Henshaw, P. S., peculiar growth lesions in frogs induced by irradiation of sperm cells with X-rays. III, 491.
- Henske, J. A. See Gedgoud, J. L.
- Hensley, L. C., and Hazlet, S. E., bromination of 4-diphenyl bromoacetate. II, 260.
- See also Hazlet, S. E.
- Hennstell, H. H. See Gunther, L.
- Herne, H. R., Allen, B. B., and Leslie, W. B., *tert*-alkyl primary amines. CRR R' NH₂. II, II, 153.
- and Humphreys, D. D., preparation of mixed *sec*-aliphatic amines. NHRR'. II, 120. 5:5-Dimethylhydantoins containing a NRR substituent. II, II, 173.
- Long, L. M., Speer, R. J., and Thompson, T. R., 5:5-disubstituted hydantoins. II, 244.
- and Smith, Perle E., direct replacement of oxygen in hydantoins and barbiturates by sulphur. II, 339.
- Speer, R. J., and Thompson, T. R., mesityl oxide and diacetone alcohol in Bucherer synthesis of hydantoins. II, 206.
- and Thompson, T. R., *tert*-alkyl primary amines. CRR R' NH₂. III, II, 320.
- Townley, R. W., and Wilson, R. C., conversion of Δ^3 -cyclohexenones and cyclohexanones into spiro-hydantoins. II, 279.
- See also Lesesne, S. D., and Wallace, W. P.
- Hepburn, J., and Dauphinee, J. A., successful removal of haemangioma of lung followed by disappearance of polycythaemia. III, 139.
- Hepler, J. R., Ackerman, W. T., and French, B., potency of *Digitalis purpurea* cultivated in New Hampshire. III, 533.
- Hepner, W., and Peierls, R., non-central forces in nuclear two-body problem. I, 48.
- Heppenstall, M. E., and Hill, D., electroencephalography in post-traumatic syndromes. III, 797.
- See also Hill, D.
- Herbert, F. K., case of juvenile xanthomatosis. III, 757.
- Dawson-Walker, E. T., and Swan, W. G. A., sulphapyridine and sulphathiazole in pneumonia. III, 263.
- Herbert, P. See McDougall, E. I.
- Herbolzheimer, A. J., colour and colour perception. III, 386.
- Herbst, R. M., and Rittenberg, D., transamination reaction: reaction between α -ketoo-acids and α -NH-acids. II, 366.
- and Sheinin, D., synthesis of peptides by transamination. II, 183.
- Herbst, W. P., hormonal therapy of prostatic carcinoma. III, 659.
- Herbut, P. A., anomalies of aortic arch. III, 706. Congenital defect in musculature of the stomach with rupture in newborn infant. III, 358.
- See also Paschkis, K. E.
- Herford, G. F. B. See Fraenkel, G. S.
- Herger, C. G., and Sauer, H. R., serum acid phosphatase activity in carcinoma of prostate. III, 39.
- Herick, W. cur. See Eaton, M. D.
- Herrington, E. F. G., and Robertson, A., influence of reaction mechanism on size distribution in polymerides. I, 39.
- Herken, H., and Erxleben, H., detection of *d*-peptidases with *d*-amino-acid oxidase. III, 769.
- See also Erxleben, H., Kögl, F., Merten, R., and Schmitz, A.
- Hernalkar, H. G. See Bhagwat, W. V.
- Herman, H. See Rapaport, H. G.
- Herman, H. A. See Swanson, E. W.
- Herman, L. See Herman, Mme.) R.
- Herman, M. See Travell, J.

- Herman, (Mme.) R., and Herman, L., energy distribution in phosphorescence spectrum of oxygen, I, 249.
- Hermann, V. S., glycogen content of the liver of *B₁* avitaminotic rats, III, 664.
- Hermans, P. H. See Kruyt, H. R.
- Hernandez-Morales, F. See Siarez, R. M.
- Herr, W. See Clotofski, E.
- Herrbach, P. See Fischer, W.
- Herrell, W. E., and Heilman, D., effects of gramicidin, tyrocidine, and penicillin on cultures of mammalian lymph node, III, 674. See also Mann, F. C.
- Herren, R. Y., reliability of roentgenographically determined pineal gland shift in brain tumours, III, 467. See also Akelaitis, A. J.
- Herrick, W. W., Tyson, T. L., and Watson, B. P., association of hydrothorax with ovarian fibroma (Meigs' syndrome), III, 888.
- Herrin, R. C. See Nicholes, H. J.
- Herriott, H. W., prevention and treatment of infectious calf scours with sulphasuxidine, III, 673.
- Herriott, R. M. See Bang, F. B.
- Herrlich, H. C. See Bueding, E., Himwich, H. E., and Martin, S. J.
- Herrmann, E. See Hütting, G. F.
- Herrmann, H., Moses, S. G., and Friedenwald, J. S., influence of pontocaine hydrochloride and chlorobutanol on respiration and glycolysis of cornea, III, 102.
- Herrmann, J. B., pyretic action on rats of small doses of morphine, III, 513.
- Herrmann, W. W. See Miller, E. R.
- Herrouin, E. F., comparison of magnetic properties of solid and powdered magnetites, with observations on coercive force, I, 252.
- and Hallimond, A. F., magnetisation of rocks, I, 170.
- Hersch, P., and Degmer, J., semi-micro-arrangement for kinetics of hydrogenation, I, 287.
- Hershey, A. D., factors limiting bacterial growth. IV. Age of parent culture and rate of growth of transplants of *Escherichia coli*, III, 210.
- and Bronfenbrenner, J., stepwise liberation of poorly sorbed bacteriophages, III, 776.
- Herte, P. See Ziegler, K.
- Hertel, E., complete analysis of absorption spectra. III. Physico-chemical properties of chromophoric groups, I, 296.
- and Siegel, U., complete analysis of absorption spectra. VII. Mutual influence of chromophoric groups in systems with closed π electron groups, I, 49.
- Hertig, A. T. See Sheldon, W. H.
- Hertz, C. S. See New, G. B.
- Hertz, J. J., and Binzler, S. H., is the maintained sedimentation rate specific for malignancy ?, III, 333.
- Hertz, M. R., and Levine, Max, fungistatic medium for enumeration of yeasts, III, 685.
- Hertz, R., modification of yeast-growth assay method for biotin, III, 754. See also Fraps, R. M.
- Hertzler, A. E. See Schmidt, C. R.
- Herve, L., and Huidobro, F., position of heart and form of extrastyles, III, 630.
- Hervey, J. P. See Abbott, W. O.
- Herwick, R. P. See Welch, H.
- Herz, R., treatment of infected wounds in hamster by contact application of ultra-violet rays, III, 596.
- Herzberg, G., laboratory production of the 4050 Å group occurring in cometary spectra; further evidence for presence of CH₂ molecules in comets, I, 113. Evidence for presence of CH₃ molecules in comets, I, 175. *t*-Type doubling in linear polyatomic molecules, I, 175.
- Herzfeld, K. F., thermo-electromotive force, I, 293.
- and Sklar, A. L., colour and constitution of polymethine dyes, I, 192.
- Herzheimer, H., passive hyperæmia for chilblains, III, 461.
- Hess, H. V. See Winstein, S.
- Hess, K., Frahm, H., Grigorescu, D., and Steurer, E., application of end-group method to determining composition of cellulose preparations, II, 256.
- and Grigorescu, D., end-group determination of polysaccharides, II, 257.
- and Steurer, E., comparison of end-group determinations and viscosity of cellulose, II, 257.
- Hess, L., heterochromia of iris, III, 877.
- Hess, V. F., interior of the earth viewed in relation to earthquake causes. II. What radioactivity tells us about the interior of the earth, I, 211.
- Hess, W. C., and Sullivan, M. X., determination of lanthionine, II, 76. Canine cystinuria; urinary excretion of cystine following administration of homocystine, homocysteine, and derivatives of cystine and cysteine, III, 904. See also Sullivan, M. X.
- Hess, W. R., statistical analysis of effects of diencephalic stimulation, III, 637. See also Jensen, L. B.
- Hesse, H. See Wieland, H.
- Hesselbrock, W. H. See Foshay, L.
- Hession, D. A. See Allen, E.
- Hester, H. R. See Sampson, J.
- Heston, W. E., inheritance of susceptibility to spontaneous pulmonary tumours in mice, III, 184. Genetic analysis of susceptibility to induced pulmonary tumours in mice, III, 184. Relationship between lethal yellow (*A'*) gene of mouse and susceptibility to induced pulmonary tumours, III, 401. See also Edwards, J. E., and White, J.
- Hestrin, S., and Avineri-Shapiro, S., polysaccharide production from sucrose, II, 294.
- Avineri-Shapiro, S., and Aschner, M., enzymic production of levan, III, 916. See also Leibowitz, J.
- Hetherington, A. W., and Ranson, S. W., effect of early hypophysectomy on hypothalamic obesity, III, 24. Relation of hypothalamic lesions to adiposity in rat, III, 382. See also Weil, A.
- Hettche, O., colorimetric determination of chloride ion, I, 161.
- Hettig, R. A. See Bethell, F. H.
- Hetzter, H. O., Lambert, W. V., and Zeller, J. H., influence of inbreeding and other factors on litter size in Chester white swine, III, 809.
- Heuer, G. J. See Stewart, H. J.
- Heuser, G. F. See Combs, G. F., Gillis, M. B., and McGinnis, J.
- Heussner, C. E. See McCord, C. P.
- Hevesy, G. von, and Euler, H. von, permeability of sarcoma cell wall to phosphate and rate of formation of phosphorus compounds in sarcoma cells, III, 569.
- Hewer, C. L., trichloroethylene as general analgesic and anaesthetic, III, 833.
- Hewett, C. L., condensation of aromatic ketones with ethyl succinate, II, 11. See also Badger, G. M.
- Hewitt, W. P., geology and mineralisation of the San Antonio mine, Santa Eulalia district, Chihuahua, Mexico, I, 291.
- Hewson, W. B., and Hibbert, H., lignin and related compounds. LXV. Re-ethanolysis of isolated lignins, II, 346.
- Hewston, E. M. See Booher, L. E., and Daniel, E. P.
- Hey, D. H. See Coates, H., Cook, A. H., Cripps, R. W., and Elks, J.
- Hey, M. H. See Spencer, L. J.
- Heyd, C. G., hepatico-renal syndrome, III, 248.
- Heyden, W. See Haemig, E.
- Heyer, H. E. See De Takats, G.
- Heyl, (Miss) D., and Cope, A. C., vinylalkylmalonic esters and barbituric acids, II, 279.
- Heymann, E., and Yoffe, A., equilibrium between lens and unilayer in the system hydrocarbon oil-oleic acid-water, in relation to the interfacial film, I, 255. See also Yoffe, A.
- Heymann, W., renal hyperlipæmia in dogs, III 88.
- Heyne, G., Hille, E., and Schaefer, F., determination of residual nitrogen in the inert gases I 284.
- Heyns, O. S. See Golberg, L.
- Heys, F. M. See Blattner, R. J.
- Hiatt, G. D. See Hearon, W. M.
- Hibbard, W. R. See Smith, Cyril S.
- Hibbert, H. See Bower, J. R., jun., Cooke, L. M., Evans, T. H., Hewson, W. B., Kulka, M., Levi, I., West, E., and West, K. A.
- Hibbs, J. W. See Krauss, W. E.
- Hibshman, J. H. See Haas, H. B.
- Hickey, A. See Algar, J.
- Hickey, F. C., and Hanley, J. J., synthesis of triphosgene for war gas identification sets, I, 261.
- Hickling, A., and Rodwell, F., electrolytic oxidation. XIII. Electrolytic oxidation of formaldehyde, I, 159.
- and Salt, F. W., hydrogen overvoltage at high current densities. VI, I, 18.
- Hickman, J. W. See Ziegler, W. T.
- Hickmans, E. M., Finch, E., and Tonks, E., plasma-protein values in infants, III, 865.
- Hicks, A. M., congenital paralysis of lateral rotators of eyes with paralysis of muscles of face, III, 876.
- Hicks, D. See Nagelschmidt, G.
- Hicks, J. D., haemoglobin values in blood of newborn infants, III, 81.
- Hidy, P. H. See Billman, J. H.
- Hieber, W., and Fuchs, H., metal carbonyls. XXXVIII. Rhenium pentacarbonyl.
- XXXIX. Amine-substituted rhenium carbonyls, I, 283.
- Fuchs, H., and Schuh, R., metal carbonyls. XXXVII. Ease of formation and properties of rhenium halogenpentacarbonyls, I, 283.
- and Reindl, E., heats of formation of cadmium halide compounds with amines, I, 228.
- Heats of formation and constitution of molecular compounds of stannic chloride, I, 228.
- Hiescher, M. See Ohle, H.
- Hiestand, W. A., action of drugs on sea-star, *Asterias forbesii*, III, 832.
- Higby, R. H., chemical nature of vitamin-P, III, 579.
- Higginbottom, C. See Gordon, M.
- Higgins, C. C., surgical treatment of [malignant] prostatic disease, III, 659.
- and Gosse, C. L., castration for carcinoma of prostate, III, 128.
- and Roen, P. R., haematuria: its clinical significance, III, 487.
- Higgins, G. M., effect on erythrocytes of single administration of promin (sodium *pp'*-diaminodiphenylsulphone-*NN'*-digluco-sulphonate), III, 455. Toxic effects of promin on erythrocytes of guinea-pigs, III, 907.
- Williams, R. D., and Mason, H. L., results of feeding rats a thiamin-low diet of a type consumed by human beings, III, 823. See also Machella, T. E.
- Higgins, W. H., acute toxic effects of mercurial diuretics, III, 422.
- High, J. H., setting the Spekker absorptiometer, I, 166.
- Hight, D. M., and West, E. S., determination of ascorbic acid based on use of standardised 2,6-dichlorophenol-indophenol in xylene, III, 257.
- Highman, B., modification of Perls' reaction for haemosiderin in tissues, III, 81.
- Hignett, S. L. See Gould, G. N., and Stableforth, A. W.
- Hildebrand, A. G., and Ryneerson, E. H., pituitary gland, III, 559. Clinical experience with mixtures of protamine zinc and unmodified insulins, III, 883.
- Hildebrand, J. H. See Campbell, James Arthur, and Long, R. W.
- Hildenbrand, E. J. C., physiotherapy in treatment of peripheral vascular diseases, III, 461.

- Hilditch, T. P., and Jasperson, H., influence of dietary fat of varying unsaturation on component acids of cow-milk fats, III, 670.
and Zaky, Y. A. H., component fatty acids of vegetable seed phosphatides, III, 74.
See also Atherton, D.
- Hildreth, A. C., and Brown, G. R., modification of Lane-Eynon method for sugar determination, III, 152.
- Hilgeman, R. H., and Smith, J. G., changes in invert sugar and sucrose during ripening of Arizona grapefruit, III, 699.
- Hill, A. M., and Webber, J. E., serum-phosphatase values in children showing retardation in osseous development and low metabolic rates, III, 866.
- Hill, B. R., and Longwell, B. B., urinary steroids from breast cancer patients, III, 811.
- Hill, C. M., anaemia as cause of death in bird malaria, III, 5.
- Hill, D., Sargent, W., and Heppenstall, M. E., hypoglycaemia in a murderer, III, 715.
See also Heppenstall, M. E.
- Hill, D. C. See Motzok, I.
- Hill, E. See Kurtz, M. B.
- Hill, E. G., symptoms associated with a retinal lesion, III, 471.
- Hill, F. C. See Sachs, A.
- Hill, F. T., changing conception of management of chronic progressive deafness, III, 167.
- Hill, J. H. See White, E. C.
- Hill, J. M. See Muirhead, E. E.
- Hill, J. N., and Hausmann, W., liver deficiency anaemia in case of acute infective hepatitis, III, 862.
- Hill, J. P. See Flynn, T. T.
- Hill, L. W., production of non-etiological skin hypersensitivity to foods by natural means in atopic persons, III, 531.
- Hill, O. F. See Andrieth, L. F.
- Hill, P. See Henne, A. L.
- Hill, R. M., and Trevororow, V., normal variation in concentration of fibrinogen, albumin, and globulin in blood plasma, III, 372.
See also Hill, A.
- Hill, R. T., and Stalker, W. W., oestrogens, blood-sugar, and liver-glycogen in normal and hypophysectomised guinea-pigs, III, 31.
- Hill, T. L., theory of the isoelectric point. IV. Applications to weak acids and bases and to their intermediate salts, I, 181. Application of group theory to isomerism in general, I, 220. Number of structural isomerides in simple ring compounds. I. and II., II, 296, 358.
- Hill, T. R., and Howie, J. W., subtropical malaria in war, III, 196.
- Hill, W. H., mercury diethyl poisoning, III, 591.
- Hill, W. K. See Angus, W. R.
- Hill, W. L., Faust, G. T., and Hendricks, S. B., polymorphism of phosphoric oxide, I, 222.
See also Hendricks, S. B.
- Hille, E. See Heyne, G.
- Hillemann, H. H., method and apparatus for opening and closing eggs which will permit turning at regular intervals during subsequent incubation, III, 223. Embryological micromanipulator with adjustable egg-holder attachment, III, 223. Design and use of micro-electrodes for production of lesions in pituitary rudiment of chick embryos, III, 299.
- Hiller, A. See Beckman, W. M., and Van Slyke, D. D.
- Hiller, R. I. See Melamed, A.
- Hilles, C. See Schmidt, L. H.
- Hillier, J. See Baker, R. J.
- Hills, G. M., function of pantothenate in bacterial metabolism, III, 849.
- Hills, H. W. J. See Balf, M. P.
- Hilton, J. H., Wilbur, J. W., Westfall, R. J., and Hauge, S. M., comparative availability of carotene in lucerne hay and in oil, III, 497.
- Himel, C. M. See Marvel, C. S.
- Himmelsbach, C. K., and Andrews, H. L., modification of morphine abstinence syndrome by drugs, III, 588.
- Himwich, H. E., Barach, A. L., Fazekas, J. F., Herrlich, H. C., and Johnson, A. E., effects of adding carbon dioxide to oxygen-enriched atmospheres in low-pressure chambers. II. Oxygen and carbon dioxide tensions of cerebral blood, III, 381.
- Bernstein, A. O., Fazekas, J. F., Herrlich, H. C., and Rich, E., metabolic effects of potassium, temperature, methylene-blue, and *p*-phenylenediamine on infant and adult brain, III, 726.
See also Bueding, E., Chesler, A., and Etsten, B.
- Hind, H. G., action of proteolytic enzymes on fibrinogen solutions, III, 682. Separation of fibrinogen from "pepsin-inhibitor," III, 682.
See also Shaw, G. E.
- Hind, J. See Grigsby, W. E.
- Hinderer, H., resolving power of light screens, I, 101.
- Hindman, J. C. See Anderson, L. J.
- Hines, H. M., effects of immobilisation and activity on neuromuscular regeneration, III, 465.
- Thompson, J. D., and Lazere, B., muscle and nerve regeneration in rat, III, 722.
- Hines, L. R., and Mattill, H. A., chemical determination of tocopherols in liver and muscle; tocopherol in urine and faeces, III, 903.
- Hines, M., control of movements by cerebral cortex in primates, III, 98. Development and regression of reflexes, postures, and progression in the young macaque, III, 636.
- Hinkel, C. L., effect of Roentgen rays on growing long bones of albino rats, III, 1.
- Hinkel, L. E. See Ayling, E. E.
- Hinman, F., congenital bilateral absence of kidneys, III, 298.
and Smith, D., total cystectomy for cancer, III, 333.
See also Weyrauch, H. M., jun.
- Hinman, W. F. See Puffer, M. E.
- Hinshaw, H. C. See Feldman, W. H.
- Hinselwood, C. N. See Lodge, R. M.
- Hintenberger, H., electrical properties of lead sulphide, I, 55.
- Hinton, J. W. See Abrahamson, R. H., Church, R. E., and Localio, S. A.
- Hippchen, H. See Wagner-Jauregg, T.
- Hipple, A., gas analysis with mass spectrometer, I, 41.
and Stevenson, D. P., ionisation and dissociation by electron impact: methyl and ethyl radicals, I, 176.
See also Stevenson, D. P.
- Hirasawa, N. See Tsuzuki, Y.
- Hirsch, J., "sulphanilamide effect" of substances devoid of sulpho-groups, III, 263.
- Hirschberg, C., military psychiatry, III, 873.
- Hirschboeck, J. S., and Coffey, W. L., jun., clot retraction time in thrombophlebitis and pulmonary embolism, III, 626.
- Hirschbold-Wittner, F. See Honigschmid, C.
- Hirschfelder, J. O. See Hulbert, H. M.
- Hirschmann, A. See Wagreich, H.
- Hirschmann, J. See Bisgard, J. D.
- Hirsch, F. R., jun., summary of X-ray satellites, I, 78. Search for element no. 87, I, 173. Origin of the M_{α_1} and M_{α_2} X-ray satellite groups, I, 293.
- Hirshberg, Y., and Haskelberg, L., fluorescence of phenylated anthracenes, I, 114.
See also Bergmann, F.
- Hirshfield, J. W., phagedenic ulcer, III, 139.
- Hirst, D. V., and Hamblen, E. C., vasomotor effects of progesterone, III, 242.
- Hamblen, E. C., and Cuyler, W. K., rationale of oestrogenic therapy in functional dysmenorrhoea, III, 116.
See also Cuyler, W. K., and Hamblen, E. C.
- Hirst, W., and Cannon, C. G., simple temperature control for laboratory electric furnaces, I, 286.
- Hirwe, N. W., and Kulkarni, P. Y., derivatives of *o*-, *m*-, and *p*-aminobenzamides and related compounds, II, 175.
- Hisaw, F. L., androgens and experimental menstruation in monkey (*Macaca mulatta*), III, 891.
- Hitchcock, A. E., and Zimmerman, P. W., root-inducing activity of phenoxy-compounds in relation to their structure, III, 294. Flowering habit and correlation of organs modified by tri-iodobenzoic acid, III, 294.
- Hitchcock, F. A., alterations in respiration caused by alcohol, III, 345.
- Hitchens, A. P., and Leikind, M. C., introduction of agar-agar into bacteriology, III, 206.
See also Brantham, S. E.
- Hitchings, G. H., and Fiske, C. H., determination of purines, II, 52.
- Hitzig, W. M., inspiratory filling of cervical veins and pulsus paradoxus in venous hypertension, III, 549.
- Hixon, R. M. See Foster, J. F., and Levine, Melvin.
- Hjort, A. M., De Beer, E. J., Buck, J. S., and Randall, L. O., relative pharmacological effects of 3-methyl-3:4-dihydro- and 3-methyl-1:2:3:4-tetrahydro-isoquinoline derivatives, III, 423. Relative pharmacological effects of 2-alkyl-3:4-dihydroisoquinolinium chlorides, III, 423. Relative pharmacological effects of 1-methyl-3:4-dihydro- and 1-methyl-1:2:3:4-tetrahydro-isoquinoline derivatives, III, 423.
- Hoagland, C. L., Gilder, H., Shank, R. E., and Ward, S. M., nutrition of *Hæmophilus influenzae*; relationship between utilisation of co-enzyme and haemin and reduction of nitrate, III, 63.
and Ward, S. M., determination of factor V by measurement of nitrite produced by *Hæmophilus influenzae*, III, 259.
See also Beeson, P. B., Lavin, G. I., and Smadel, J. E.
- Hoagland, R., and Snider, G. D., digestibility of animal and vegetable fats, III, 821.
- Hoagland, R. J., sulphaguanidine for typhoid carriers, III, 673.
- Hoaglin, R. I. See Bachman, G. B.
- Hoare, E. D., occurrence of Rh antigen in the population, III, 864.
- Hobbs, B. C. See Cruickshank, J. C.
- Hobbs, M. E., and Weith, A. J., jun., electric moments of substituted benzoic acids. II. Moments of *o*-, *m*-, and *p*-fluoro- and of *o*-chloro- and *o*-bromo-benzoic acids, I, 223.
- Hobbs, S. W. See Pecora, W. T.
- Hobby, G. L. See Heidelberger, M.
- Hoberman, H. D., and Rittenberg, D., biological catalysis of exchange reaction between water and hydrogen, III, 350.
See also Dubos, R. J.
- Hobson, J. J. See Rucks, W. L.
- Hoch, H., effect of prolonged administration of carotene in vegetables on serum-carotene and vitamin-A levels in man, III, 822. Micro-determination of vitamin-A by Carr-Price reaction, III, 822.
- Hoch-Ligeti, C., effect of carcinogenic hydrocarbons on production of anti-hormones, III, 128.
- Hochanadel, C. J. See Gassman, A. G.
- Hochberg, M., Melnick, D., and Oser, B. L., photometric determination of reduced and total ascorbic acid, III, 502.
- Melnick, D., Oser, B. L., and Siegel, L., destruction of pyridoxine by light, III, 577.
- Hochgesang, F. P. See Brockman, F. G.
- Hochmann, H. See Koelsch, C. F.
- Hochrein, M., treatment of angina pectoris, III, 718, 790.
- Hock, H., and Lang, S., autoxidation of hydrocarbons. VI. Indane peroxide, II, 130.
- Hockett, R. C., and Downing, M. L., rates of reaction of diisopropylidene-glucose, -galactose and -sorbitose with *p*-toluenesulphonyl chloride in pyridine solution, II, 56.

- Hockett, R. C., Guttag, A., and Smith, M. E., production of furfuraldehyde from D-lyxose and D-ribose, II, 205.
- and Mowery, D. F., jun., lead tetra-acetate oxidations in the sugar group. III. Triphenylmethyl ethers of β -methyl-D-arabinopyranoside and of α -methyl-L-fucopyranoside; determination of their structures, II, 219.
- Hodes, H. L., and Strong, P. S., sulphonamides in meningococcal meningitis, III, 263. See also Shaffer, M. F.
- Hodes, P. J. See Fitz-Hugh, T., jun.
- Hodge, E. T., mineral resources of the Northwest, I, 290.
- Hodge, H. C., and Goldstein, M. R., acute toxicity of choline chloride to mice and rats, III, 347.
- Koss, W. F., Ginn, J. T., Falkenheim, M., Gavett, E., Fowler, R. C., Thomas, J., Bonner, J. F., and Dessauer, G., insoluble sodium of bone; adsorption of sodium at 40° by bone, dentin, enamel, and hydroxyapatite as shown by the radioactive isotope, III, 657.
- Hodges, F. J., cyclotron as medical instrument III, 517.
- Hodgkins, M. P. See Shelley, W. B.
- Hodkiss, W. S. See Errington, B. J., and Hageman, R. H.
- Hodgson, A. R., and Robinson, J. R., absorption of local sulphanilamide, III, 509.
- Hodgson, G. A. See Bigger, J. W.
- Hodgson, H. H., absorption spectra of *m*-substituted phenols, and the influence of nucleophilic substituents on electronic mobility, I, 271. Diazo-coupling reaction, II, 8. Tautomerism of benzoquinone-*p*-nitrosophenol systems. II. 3-Fluoro-4-nitrosophenol, II, 159.
- and Birtwell, S., preparation of diazonaphthols and nitration of 4-bromoacet-1-naphthalide, II, 299. Preparation of 1:3-dinitronaphthalene, II, 360.
- Birtwell, S., and Walker, John, interpretation of the Sandmeyer reaction. III. Mechanism involving anionoid halogen, II, 28.
- and Crouch, E. A. C., nitrosation of phenols. XIX. The three cresols and their methyl ethers; semicarbazide reactions, II, 226.
- and Foster, C. K., influence of *p*-substituents on decomposition of zinc chloride double salts of diazonium chlorides by acetic anhydride, II, 59.
- Leigh, E., and Turner, G., preparation of symmetrical azo-compounds, positional influence of nitro-group on decomposition of nitronaphthalenediazonium sulphates by cuprous hydroxide, and an improved method for production of 2-nitronaphthalene, II, 59.
- and Marsden, E., *N*-nitrosoacet-1-naphthalide, II, 258. Decomposition of diazo-compounds in neutral solution; the diazo-coupling reaction, II, 324.
- and Turner, H. S., influence of 5-nitro-group on halogenation and nitration of 5-nitro-1-naphthylamine and related naphthalides, II, 27. Action of cuprous oxide on diazotised amines. I. Reactions in ethyl-alcoholic acid solution. II. Reactions in solutions of alcohols and organic solvents; preparation of 1:6-dinitronaphthalene, II, 59, 158. Monoreduction of dinitronaphthalenes in acid solution and of 1:5- and 1:6-dinitronaphthalene by aqueous sodium sulphide, II, 298. Influence of 6-nitro-group on halogenation, nitration, mercuration, and diazo-coupling of 6-nitro-1-naphthylamine and related naphthalides II, 323. Colour and constitution. VII. Structures of mono- and di-nitronaphthylamines based on their visual colours; probable constitution of 1:2-naphthaquinone, II, 361.
- See also Davies, R. R.
- Hodgson, R., Heggie, R. M., and Sutherland, P. L., "chocolate" starch medium for rapid type differentiation of *C. diphtheriae*, III, 603.
- Hodgson, R. E. See Bradbury, J. T.
- Hodnett, E. M., and Stewart, V. E., derivatives of pyridine acids. I. *N*- β -Acylaminoethyl-nicotinamides, II, 206.
- Höber, J. See Höber, R.
- Höber, R., and Höber, J., histophysiological study on activity of stellate cells of frog liver, III, 565.
- Höcker, K. H., effective cross-sections for reactions between neutrons and deuterons, I, 3.
- Hoefer, E. See Briner, E.
- Högberg, B., Schlenk, F., and Euler, H. von, reactions of cozymases and their cleavage products [determination of nicotinic acid and its amide], III, 684. See also Euler, H. von.
- Hoehn, W. M., and Ungnade, H. E., catalytic reduction of dehydrocholic acid in presence of Raney nickel, II, 167. See also Schneider, A. W.
- Hölk, B. See Byström, A.
- Hölzle, K. See Ruggli, P.
- Hönigschmid, C., and Hirschbold-Wittner, F., at wt. of ytterbium, I, 246.
- Hönl, H., and Papapetrou, A., internal motion of the electron. III, I, 214.
- Hoepfner, E. See Bredereck, H.
- Hoerr, C. W., McCorkle, M. R., and Ralston, A. W., high mol. wt. aliphatic amines and their salts. X. Ionisation constants of primary and symmetrical secondary amines in aqueous solution, I, 201. and Ralston, A. W., high mol. wt. aliphatic amines and their salts. IX. Behaviour of various salts of dodecylamine in water, ethyl alcohol, and benzene. XI. Transference numbers of primary aliphatic amine hydrochlorides in aqueous solution and their significance in interpretation of micelle theory, I, 122, 229. See also Ralston, A. W.
- Hoerr, S. O. See Cutler, E. C.
- Höss, O. See Dane, E.
- Hofer, A. W. See Bottcher, E. J., and Campbell, T.
- Hofer, M. J. See Taylor, A.
- Hoff, H. E. See Nahum, L. H., Rubin, M. A., and Winkler, A. W.
- Hoffman, A. M., and Pobirs, F. W., intermittent hypothermia with hyperhydrosis, III, 579.
- Hoffman, B. J., renal ischaemia from aneurysm of abdominal aorta, III, 550.
- and Kracke, R. R., chronic haemolytic anaemia with paroxysmal nocturnal haemoglobinuria, III, 711.
- Hoffman, D. O. See Koelsch, C. F.
- Hoffman, E. J., Boyd, G. E., and Ralston, A. W., high mol. wt. aliphatic amines and their salts. VIII. Soluble and insoluble films of amine acetates; surface tension of aqueous solutions of dodecylamine acetate, I, 14.
- Hoffman, J. C. See Wagner, L. E.
- Hoffman, M. M., metabolism of progesterone, III, 393.
- Kazmin, V. E., and Browne, J. S. L., excretion of pregnanediol following administration of deoxycorticosterone acetate to rabbits, III, 390. See also Venning, E. H.
- Hoffman, O. D., and Custer, R. P., micro-method for determining prothrombin time on fresh capillary blood, III, 6. See also Beach, E. F.
- Hoffman, R. See Bachmann, W. E.
- Hoffman, S. J. See Butler, C. D., and Levin, I. M.
- Hoffman, W. A. See Krakower, C.
- Hoffman, W. S., photometric clinical chemistry, III, 296.
- and Osgood, B., value of blood-chloride and sodium determinations in diagnosis of dehydration, III, 88.
- Hoffmann, A., determination of life of metastable excited states of neon from residual current measurements in luminous discharges I 46.
- Hoffmann, C., Schweitzer, T. R., and Dalby, G., fungistic properties of pyridinecarboxylic and aminobenzoic acids, a resonance effect III, 144.
- Hoffmann, G., detection of nuclear disintegration products of cosmic rays with the ionisation chamber, I, 48.
- Hoffmann, J., [amount of] uranium in human thyroid gland, and dog testical and pancreas III, 37.
- Hofman, T. R., ruptured Graafian follicle and corpus luteum cysts with intraperitoneal haemorrhage, III, 890.
- Hofmann, A. See Stoll, A.
- Hofmann, K., Kilmer, G. W., Melville, D. B., and Du Vigneaud, V., condensation of phenanthrenequinone with diamino-carboxylic acid derived from biotin, II, 49. See also Melville, D. B.
- Hofmann, U., and Sinkel, F., formation of elementary carbon from sugar charcoal, I, 134.
- Hofmann, W. P., and Carey, E. T., congenital myopic astigmatism in identical twins, III, 310.
- Hogan, A. G., and Hamilton, J. W., adequacy of simplified diets for guinea-pigs and rabbits, III, 411. See also O'Dell, B. L., and Richardson, L. R.
- Hogan, R. B. See Eagle, H.
- Hogben, L., chromatic behaviour, III, 165.
- Hogeboom, G. H., and Adams, M. H., mammalian tyrosinase and dopa oxidase, III, 56.
- Hogg, J. C., prevention of chronic otitis and deafness, III, 236.
- Hogue, M. J., effect of *Trichomonas vaginalis* on tissue-culture cells, III, 601.
- Holbourne, A. H. S., physiology of colour vision, III, 732.
- and Pattle, R. E., sources of error in sulphanilamide determinations, III, 759.
- Holbourne, H. See Cairns, H.
- Holek, H. G. O., Mathieson, D. R., Smith, E. L., and Fink, L. D., effects of testosterone acetate and propionate and of oestradiol dipropionate on resistance of rats to epival sodium, nostenal, pernoston, and pentobarbital sodium, III, 138.
- Weeks, J. R., Mathieson, D. R., and Duis, B., effects of age and sex on safety margin of vinbarbital sodium and of calcium 1-methyl-5-ethyl-5:6:obutylbarbiturate in rats, III, 764. See also Weeks, J. R.
- Holden, G. W. See Lozinski, E.
- Holden, H. F., determination of carbon monoxide in air and blood, III, 616. See also Lemberg, R.
- Holden, R. F., jun. See Farr, L. E.
- Holdenried, R. See Evans, F. C.
- Hole, N., Holtsmark, J., and Tangen, R., γ -radiation of light elements by proton irradiation, I, 3.
- Holiday, E. R. See Berenblum, I.
- Holinger, P. H. See Van Pernis, P. A.
- Hollaender, A. See Davis, B. D.
- Hollander, A. See Friedemann, U.
- Hollander, F., and Stein, J., micro-determination of chloride in viscous biological fluids and its reliability, III, 448. See also Cornell, A., Frank, R. T., and Winkelstein, A.
- Hollander, J. L., bee venom in treatment of chronic arthritis, III, 913.
- Holleck, L., statistics of isotope distribution in condensed particles; requirements for a separation of isotopes on basis of density variations of condensed particles, I, 2, 233.
- Hollenbeck, C. M. See Kneen, E.
- Holley, E. See Hubbard, R. S.
- Holley, R. W. See Frank, R. L.

- Holliman, F. G., and Mann, F. G., synthetic application of α - β -bromoethylbenzyl bromide. I. Sulphanilamide derivatives of 1:2:3:4-tetrahydroquinoline. II. 70.
See also Mann, F. G.
- Hollingsworth, E. W., preparation of cholestenes, cholestadienes, and cholestatrienes. II. 263.
- Hollinshead, W. H., glomus coccygeum and carotid body. 399.
- Hollo, Z. See Kocsis, E. A.
- Holloway, C., jun. See Ottenweller, J. H.
- Holly, O. M. See Gross, H.
- Hollyday, W., and Cottle, D. L., lower aliphatic alcohols; application of Zerevitinov determination. II. 20.
- Holm, F. See Müller, D.
- Holm-Hansen, D. See Atkinson, E. R.
- Holman, A. W., and Mathieu, A., induction of labour [with pituitrin] in patients with toxæmia. III. 326.
- Holman, E., vitamin and protein factors in pre-operative and postoperative care of surgical patient. III. 190. Anatomic and physiological effects of arteriovenous fistula. III. 719.
- Wood, D. A., and Stockton, A., unusual cases of hyperinsulism and hypoglycaemia. I. Extrapancreatic islet adenoma as a cause of hyperinsulism and hypoglycaemia. III. 883.
- Holman, E. F. See Samson, P. C.
- Holman, H. H., and Pattison, I. H., blood picture of sheep treated with phenothiazine. III. 267.
- Holman, R. L., low-protein diet augments hyperproteinæmia produced by repeated injections of homologous plasma; dynamic equilibrium between food-, plasma-, and tissue-proteins. III. 374. Bilateral nephrectomy as effective as heavy metal injury in production of experimental necrotising arteritis in dogs; alteration of blood plasma-proteins not essential. III. 790.
- and Donnelly, G. L., hypoproteinæmia as protection against mercuric chloride injury in dogs. III. 374.
- Holman, W. I. M., determination of phosphorus by molybdenum-blue method. I. 263.
- Holmberg, B., mercaptals and mercaptols of β -thiopropionic acid. II. 119. Phenylmethanesulphinic acid. II. 157. Stereochemical studies. XXIII. Optically active dibromosuccinic acids. II. 183. Preparation of phenylglyoxal. II. 195. Phenylethyl-thiopropionic acids and related compounds. II. 262. Oxidation of mercaptal- and mercaptol-acids with persulphate. II. 262. Iodometric determination of mercaptal- and mercaptol-acids. II. 287.
- and Schjænberg, E., unsaturated acids and thiocetic acid. II. 183. Fission of thietines of sulphido-acids. II. 251. [β -]Phenyl- and [β -]benzyl-thiopropionic acids and their oxidation products. II. 262.
- Holmes, A., heteromorph of vananzite. I. 140.
- Holmes, A. D., Patch, J. A., and Tripp, F., relation of season, weight, and price to vitamin-C content of oranges. III. 578.
- and Pigott, M. G., comparative stability of vitamin-A in cod-liver oil and in oleo-vitamin-A and -D. III. 497.
- Tripp, F., Woelffer, E. A., and Satterfield, G. H., relation of volume of daily milk production to ascorbic acid content of cow's milk. III. 256. Ascorbic acid content of cow's milk during four successive lactation periods. III. 903.
- See also Schröder, G. M.
- Holmes, E. O., jun., easily-constructed precision m.p. apparatus [and valve for regulating the flame of a micro-burner]. I. 266.
- Holmes, F. E., storage vessel for blood. III. 81.
- Holmes, H. N., vitamin-C in the war. III. 577.
- and Alexander, W., hay fever and vitamin-C. III. 577.
- See also Kornblum, N.
- Holmes, J. R., isotope shifts in lines of nitrogen. I. 113.
- See also Ferguson, F. F.
- Holmes, O. M., protein diet in pregnancy. III. 751.
- Holmes, R. J., relationships of higher arsenides of cobalt, nickel, and iron, occurring in nature. I. 108.
- Holmes, W., innervation of crustacean muscles. III. 722. Silver staining of nerve axons in paraffin sections. III. 861.
- and Medawar, P. B., sulphanilamide application to peripheral nerves. III. 341.
- Pumphrey, R. J., and Young, J. Z., medullated nerve fibres of prawns. III. 551.
- and Young, J. Z., nerve regeneration after immediate and delayed suture. III. 97.
- Holots, J. See Janke, A.
- Holst, J. C., miosis congenita. III. 800.
- Holt, L. E., jun., Albanese, A. A., Brumback, J. E., jun., Kajdi, C. N., and Wangerin, D. M., nitrogen balance in experimental tryptophan deficiency in man. III. 662.
- See also Albanese, A. A., Josephs, H. W., and Ward, Robert.
- Holt, P. F., and Callow, H. J., micro-scale extractions by organic solvents. I. 72. Micro-determination of calcium in serum. III. 303.
- Holt, R. B., and Watt, G. W., reactions of nickelous, nickelonickelic, and ferric oxides in liquid ammonia. I. 207.
- Holtfreter, J., properties and function of surface coat in amphibian embryos. III. 783.
- Holtsmark, J. See Holle, N.
- Holtz, P., Credner, A., and Walter, H., specificity of amino-acid decarboxylases. III. 681.
- Holzapfel, H. See Hein, F.
- Holzapfel, L., organic silicic acid compounds. I. Association in systems of silicic esters and alcohols. III. Saponification and polymerisation of silicic esters in organic media. I. 156, 256.
- Holzen, H. See Sah, P. P. T.
- Hoizinger, L. See Falts, F.
- Holzmann, H. See Westphal, O.
- Holzmüller, W., anomalous dispersion and loss angle in amorphous organic solids at high frequencies. I. 219.
- Homan, D. M. See Roberts, E. C., and Van Brugsen, J. T.
- Homans, J., vasomotor and other reactions to injuries and venous thrombosis. III. 461. Also Dougherty, J.
- Homiller, R. P. See Toennies, G.
- Hompesch, H., carbohydrate metabolism of diphtheria bacilli. I. Acid fission of carbohydrates in peptone solution by types of *Corynebacterium diphtheriae*. III. 355.
- Hong. See Nicholson, H. C.
- Hönigmann, H., number conception in animal psychology. III. 468. Number conception in fowls. III. 468, 639.
- Hoobler, S. W. See Schales, O.
- Hood, S. L. See Parks, R. Q.
- Hook, W. E. See Sarnat, B. G.
- Hoover, C. W., pubertal increase in responsiveness to androgen in male rat. III. 174.
- and Pfeiffer, C. A., morphology and development of testicular tumours in mice of the A strain receiving oestrogens. III. 489. Effects of sex hormones on body growth, skin, hair, and sebaceous glands in rat. III. 562.
- See also Pfeiffer, C. A.
- Hoover, S. B., and Boyd, W. C., widened reactivity of antibody produced by prolonged immunisation. III. 611.
- Hoover, S. R. See Ludwig, C. A.
- Hopf, H., absorption lines of water vapour in the spectral wave-length range 0.15–0.5 mm. I. 217.
- Hopfield, J. J., light-and-shadow box as visual aid in measuring spectra. I. 136.
- Hopkins, C. Y., taste differences in compounds having N -C(S)-linking. II. 108; III. 236.
- Hopkins, E. W., and Poland, E. F., young pigs as test animals for staphylococcus enterotoxin. III. 234.
- Hopkins, G., and Hunter, L., associating effect of the hydrogen atom. XI. Hydrogen bonds involving the sulphur atom; the S-H-S bond. II. 8.
- Hoppe, J. O., and Mollett, C. E. F., biological assay of tincture of aconite. III. 912.
- Hoppe, W., crystal structure of α -AlOOH (diaspore). II. Fourier analysis. I. 44.
- Hopper, M. E. See Lewis, G. M.
- Hopper, T. H. See Carter, J. L.
- Hopps, H. C., and Campbell, James A., immunological and toxic properties of casein dizes as prepared for parenteral administration. III. 599.
- Horecker, B. L., absorption spectra of haemoglobin and its derivatives in visible and near infra-red regions. III. 340.
- Horn, C. D. See Sagall, E. L.
- Horn, E. C., neutron and X-ray effects on regeneration of forelimb or larval limb. III. 155.
- Horn, H. Klempener, P., and Steinberg, M., vascular phase of chronic diffuse glomerulonephritis. III. 37.
- Horn, M. J. See Jones, D. B.
- Horn, R. C., jun., poikilodermatomyositis; case with complete postmortem examination. III. 260.
- Horner, C. K., Burk, D., Allison, F. E., and Sherman, M. S., nitrogen fixation by *Actinobacter* as influenced by molybdenum and vanadium. III. 918.
- Horner, F. O. See Hamblet.
- Horner, W. D., dinitrophenol and its relation to formation of cataract. III. 104.
- Horning, E. S., reaction of uterine epithelium of rat to oestrogenic stimulation. III. 889. See also Waksman, S. A.
- Horsfall, F. L., jun., influenza problem. III. 809.
- See also Thomas, L.
- Horst, C. J., *ura der*, early stages in embryonic development of *Elephantulus*. III. 478.
- and Gillman, pre-implantation phenomena in uterus of *Elephantulus*. III. 27. Life history of corpus luteum of menstruation in *Elephantulus*. III. 27. Early gravid and premenstrual phenomena in uterus of *Elephantulus*, Macacus, and human female. III. 325. Spontaneous development of deciduomata in *Elephantulus*. III. 325. Pre-implantation abortion in *Elephantulus*. III. 325.
- Horton, B. T., use of histamine in Meniere's disease. III. 734.
- Horton, C. W. See Rogers, F. T., jun.
- Horton, J. S. F. See Ungley, C. C.
- Horton-Smith, C., sulphagnanidine in avian coccidioides. III. 264.
- and Taylor, E. L., sulphamethazine and sulphadiazine treatment in caecal coccidioides of chickens. III. 264.
- Horvath, S. M., and Roughton, F. J. W., gasometric determination of carbon monoxide in blood. III. 12.
- See also Roughton, F. J. W.
- Horwitz, A., Sachar, L. A., and Elman, R., experimental study of phlebitis following venolysis with glucose and amino-acid solutions. III. 719.
- See also Elman, R.
- Horwitt, B. N. See Dorfman, R. I.
- Horwitz, O., and Farley, D. L., vitamin-B₁ deficiency in pregnancy indicated by test for OBT principle. III. 732.
- Horwitz, T., lesions of intervertebral disc and ligamentum flavum of lumbar vertebrae. III. 365.
- Horwood, H. C., and Keevil, N. B., age relationships of intrusive rocks and ore deposits in the Red Lake Area, Ontario. I. 171.
- Horwood, R. E. See Bryan, C. S.
- Höselitz, A., and Sticksmith, W., magnetic study of two-phase iron-nickel alloys. II. I. 225.
- Hosemann, R., X-ray investigation of highly disperse state of division in a fibre: cellulose model. I. 226.

- Hoskins, D. See Dack, G. M.
- Hoskins, H. A. See Heck, E. T.
- Hoskins, R. G. See Freeman, H., Rosenzweig, S., and Sutherland, G. F.
- Hoster, H. A., search for physiologically active substance in calf thymus, III, 322.
- Hostettler, E. H. See Satterfield, G. H.
- Hotchkiss, C. N. See Lipschitz, W. L.
- Hottinger, A., and Bloch, H., specificity of restriction of choline-esterase by tri-*o*-tolyl phosphate, III, 519.
- Hottle, G. A. See Bernheimer, A. W.
- Houchin, O. B., effect *in vitro* of α -tocopherol and its phosphate on oxidation in muscle tissue, III, 233.
- and Mattill, H. A., oxygen consumption and creatine and chloride content of muscles from vitamin-E-deficient animals as influenced by feeding α -tocopherol, III, 232. Effect of parenteral administration of α -tocopherol phosphate on metabolic processes in dystrophic muscle, III, 232.
- Houck, J. W., tumours of salivary glands. I. and II., III, 244.
- Hougen, O. A., and Watson, K. M., solid catalysts and reaction rates, I, 259.
- Houghton, J. D. See Jacobs, J. L., and Ritvo, M.
- Houlihan, R. B., transformation of virus of rabbit fibroma (Shope) into that of infectious myxomatosis (Sanarelli), III, 332.
- House, V. See Dulaney, A. D.
- Householder, A. S., and Williamson, R. R., diffusion of electrolytes in cells, III, 200.
- Houssay, B. A., and Braun-Menendez, E., role of renin in experimental hypertension, III, 380.
- Houssay, H. E. J., changes in thyroid and adrenals of rats after hypophysectomy. See also Foglia, V. G.
- Houtermans, F. G., effective cross-section of [atoms of] elements for thermal neutrons, I, 111.
- Houwink, R., structure of rubber, I, 306.
- and Klaassens, K. H., viscosity-concentration relationships in concentrated solution. V., I, 10.
- Hove, E. L., and Harrel, C. G., nutritive value of wheat-germ protein, III, 661.
- Howard, B. See Bingham, J. B.
- Howard, H. W., genetics of *Armadillidium vulgare*, Latr., III, 223.
- See also Sullivan, M. X.
- Howard, J. E., and Jewett, H. J., therapeutic use of pellets of testosterone propionate, III, 121.
- See also Tumulty, P. A.
- Howard, K. L. See Smith, L. I.
- Howard, M. E. See Blake, F. G.
- Howard, N. J., subcutaneous dorsal digital bursitis, III, 221.
- Howe, D. E., photo-electric spectrophotometer for analytical research, I, 210.
- Howe, H. A., and Bodian, D., penetration of poliomyelitis virus from gastro-intestinal tract in chimpanzee, III, 440.
- Howe, H. S., shock treatment technique in psychiatry, III, 468.
- Howe, J. S. See Cole, W. H.
- Howe, P. E., feeding an army, III, 573.
- Howell, A. B., anatomy of inguinal region, III, 365.
- Howell, C. E. See Britton, J. W.
- Howell, I. L. See Benton, A. L.
- Howell, K. M. See Rambar, A. C.
- Howes, E. L., immediate strength of sutured wound, III, 399.
- Howes, N. H., action of posterior pituitary extracts on [metamorphosis in] tadpoles, Howie, J., scarlet fever immunisation in Windsor, Ont., III, 526.
- Howie, J. W. See Hill, T. R.
- Howitt, B. F., and Herick, W. van, relationship of St. Louis and Western equine encephalitic viruses to fowl and mammals in California, III, 527.
- Howitt, V. F., Buss, W. C., and Shaffrath, M. D., acute anterior poliomyelitis in Kern County, California, III, 148.
- Howkins, A. G., micro-filtration apparatus, I, 266.
- Howland, F. O. See Greene, R. D.
- Howland, J. W. See Dounce, A. L.
- Howlett, F. S., effect of indolylbutyric acid on tomato fruit set and development, III, 537.
- Hoxworth, P. I. See Lee, M.
- Hoyer, H., infra-red investigation of hydrogen links, I, 142.
- Hoyle, L., lipoid antigens of *C. diphtheriae* and *C. hofmannii*, III, 435.
- Hoyne, A. L., therapy of meningitis, III, 135.
- Hoyos, J. M., and Quesada, J. J., normal cardiovascular Roentgen silhouette, III, 781.
- Hoyt, R. E., and Levine, Milton, concentrating serum and plasma in cellophane casings, III, 622.
- Hoyt, W. A. See Goldblatt, H.
- Erdina, L. S. See Phillips, F. J.
- Hrdlicka, A., peoples of Soviet Union, III, 3. Adult scapula: additional observations and measurements, III, 365. Crania of Siberia, III, 368. Skull of midget from Peru, III, 620.
- Hrenoff, A. K., use of pure digitalis glycosides (lanatoside C), III, 762.
- Hsu, C. F., saponin of Chinese drug "san-chi." I, II, 256.
- Hsu, S., Hwang, K., and Chu, H., cardiovascular changes in stimulation of motor cortex, III, 724.
- Hsueh, C., cooling hydrogen discharge tubes, I, 319.
- Huang, A. Y. L. See Li, L.
- Huang, C. H., titration and neutralisation of Western strain of equine encephalomyelitis virus in tissue culture, III, 529.
- Huang, L. S. See Kaufmann, H. P.
- Huang, Y. T., Li, L., and Lin, K. H., amino-acids and their derivatives. III. Synthesis of α -aminodi-*n*-propylacetic acid, II, 253.
- Li, L., Lin, K. H., and Lin, M. C., amino-acids and their derivatives. IV. Synthesis of α -aminodi-*n*-butylacetic acid and α -aminodi-isobutylylactic acid, II, 253.
- Li, L., Lin, K. H., and Lu, M., amino-acids and their derivatives. VII. Synthesis of α -amino- δ -methyl- α -isoamylhexoic acid (α -aminodioisoamylacetic acid), II, 218.
- See also Li, L., and Lin, K. H.
- Hubacher, M. H., vacuum sublimation, I, 267. Carvacrolphthalain, II, 90.
- Hubbard, D. M. See Cholak, J.
- Hubbard, J. P., diagnosis and evaluation of compensated and uncompensated patency of ductus arteriosus, III, 549.
- Preston, W. N., and Ross, R. A., circulation time in infants and young children, determined by radioactive sodium, III, 91.
- and Starbuck, G. W., paroxysmal tachycardia in 2-month-old infant with ventricular rate of 350, III, 718.
- Hubbard, R. M., and Brown, G. G., rolling ball viscometer, I, 187.
- Hubbard, R. S., Aaron, A. H., and Butsch, W. L., excretion of sulphanilylguanidine in material drained from human biliary tract, III, 583.
- and Holley, E., apparent fructose content of human extracellular fluid, III, 627.
- Kenny, F. E., and Mezen, J. F., xanthoproteic index, urea, and creatinine in plasma of patients with renal insufficiency, III, 375.
- and Loomis, T. A., determination of inulin [in blood and urine], III, 152.
- See also Beck, E. C., and Loomis, T. A.
- Hubbell, R. B., Vickery, H. B., and Nolan, L. S., cucurbit seed globulins. II. Use as substitute for edestin in experimental diets, III, 494.
- Huber, A. See Jadassohn, W.
- Huber, C. F. See Price, C. C.
- Huber, (Fr.) D. See Treadwell, W. D.
- Huber, M. F. See Price, C. C.
- Huber, W., and Barlow, O. W., chemical and biological stability of crystalline vitamin-D and -D₃ and their derivatives, III, 755.
- Hubert, G. R. See Catchpole, H. R., and Reynolds, S. R. M.
- Hucker, G. J. See Walter, W. G.
- Huddleston, I. F., immunity in brucellosis, III, 280.
- Hudson, B. E. See Abramovitch, B.
- Hudson, B. J. F., and Robinson, (Sir) R., decahydronaphthalene-1,5-dione and 2,2'-diketodicyclopentyl, II, 38.
- Hudson, C. B., cross-matching of blood of donor and recipient, III, 864.
- Hudson, C. S., theory of racism, II, 289. See also Adams, M., Hann, R. M., Haskins, W. T., McClenahan, W. S., Merrill, (Miss) A. T., Montgomery, (Miss) E. M., Richtmyer, N. K., Schoch, T. J., Tilden, E. B., and Wilson, E. J., jun.
- Hudson, G. E. See Bartlett, N. R.
- Hudson, J. R. See Daubney, R.
- Hudson, N. P., Sigel, M. M., and Markham, F. S., antigenic relationship of British swine influenza strains to standard human and swine influenza viruses; use of chicken and ferret antisera in red cell agglutination, III, 852.
- See also Schwab, J. L.
- Huebner, C. F. See Link, K. P.
- Hückel, W., and Jahnertz, W., dielectric behaviour of nitrogenous heterocyclic compounds in aqueous solution, I, 298.
- and Sowa, H., optical activity in the *trans*-hydrindane and -decahydronaphthalene series, II, 302.
- and Wagner, Helmut, *cis*- Δ^2 -menthene, II, 376.
- Hull, G. See Freudenberg, K.
- Hültenschmidt, G. See Kaufmann, H. P.
- Hueper, W. C., pectin atheromatosis and thesaurosis in rabbits and in dogs, III, 92.
- Morphological aspects of experimental actinic and arsenic carcinomas in skin of rats, III, 182. Effects of intravenous injections of solutions of gum arabic, egg-albumin, and gelatin on blood and organs [blood vessels] of dogs and rabbits, III, 456. Chronic nicotine poisoning in rats and in dogs, III, 836.
- and Ichniowski, C. T., haematic and organic reactions in standardised and graded histamine shock in dogs, III, 833. Treatment of standardised and graded histamine shock in dogs with solutions of methylcellulose and S-methylsothiourea sulphate, III, 910.
- and Martin, G. J., tyrosine poisoning in rats, III, 662.
- See also Martin, G. J.
- Hüttig, G. F., reactions of the type A (solid) + B (solid) \rightarrow AB (solid). IV. Progress of chemical reactions involving solids, I, 22. [with Theimer, H., and Breuer, W.], reactions of solid substances. CXXVI. Outgassing of solid substances, I, 97.
- and Bludau, H. H., reactions of solid substances. CXXX. Outgassing of iron powders of different origin and history, I, 97.
- and Herrmann, E., elevation of solubility of alumina in kaolin by preheating in gases, I, 275. Reactions of solid substances. CXXII. Processes occurring in a kaolin on gradual heating in presence of air and other gases, I, 305.
- and Theimer, H., change in properties of zinc oxide and chromic oxide during their combination, I, 96.
- See also Kappel, H.
- Huf, E., biological prolactin [in urine] titration, III, 119.
- and Widmann, G., step-photometric determination of oestrogenic stilbenes, II, 20.
- Huff, J. W. See Sarett, H. P.
- Huffman, C. F. See Scheidenhelm, E. C.
- Huffman, E. W. D. See Rodden, C. J.

- Huffman, H. M., thermal data. XV. Heats of combustion and free energies of compounds containing the peptide bond, I, 92.
See also Guthrie, G. B., jun.
- Huffman, J. R. See Deane, C. W.
- Huffman, M. N., derivatives of cestrone containing oxygen at C₍₁₈₎, II, 41.
- Hug, O., peptic erosions in jejunum, III, 245.
- Hugenholz, M. J. See Hartz, P. H.
- Huggett, C., Arnold, R. T., and Taylor, T. I., Arndt-Eistert reaction, II, 131.
- Huggett, W. E., synthetic menthols, II, 14.
- Huggins, C., endocrine effects in advanced prostatic cancer [and serum-phosphatase], III, 571.
- and Neal, W., coagulation and liquefaction of semen; proteolytic enzymes and citrate in prostatic fluid, III, 480.
See also Scott, W. W.
- Huggins, M. L., viscosity of dilute solutions of long-chain molecules. IV. Dependence on concentration, I, 58. Mol. wts. of high polymers, I, 320.
- Sun, K. H., and Davis, (Miss) D. O., dispersion of silicate glasses as a function of composition. II, I, 85.
- Hughes, A. F. W., arterial blood pressure of developing chick, III, 629. Histogenesis of arteries of chick embryo, III, 707.
- Hughes, A. L., and Pao, C. S., use of Wood's metal in vacuum systems, I, 320.
- Hughes, C. L. See Winn, W. A.
- Hughes, D. J. See Wilson, V. C.
- Hughes, E. C., adrenal glands and hyperemesis gravidarum, III, 108.
- Hughes, E. D. See Bird, M. L.
- Hughes, E. H., thiamin content of dried pork muscle, III, 188.
See also Ittner, N. R.
- Hughes, E. W., and Moore, W. J., crystal structure of β -glycylglycine, I, 54.
- Hughes, H. B., and Schmidt, L. H., oxidation of steroids by *Akkaligenes faecalis*, III, 355.
- Hughes, J. See McCouch, G. P.
- Hughes, Rita. See Sachs, A.
- Hughes, Robert. See Van Ordstrand, H. S.
- Hughes, T. P., reaction of African grivet monkey (*Cercopithecus aethiops centralis*) to yellow fever virus, III, 852.
- Hughes, W., treatment of malaria in hyperendemic zone, III, 195.
- Hughes-Schroder, S., meiosis without chiasmata, III, 784.
- Hughson, W., and Thompson, E., correlation of hearing acuity for speech with discrete frequency audiograms, III, 319.
- Huguenin, R. See Welti, H.
- Huidobro, F., abdominal vagal endings liberate a substance different from acetylcholine, III, 9. Role of sympathetic in hypertension from vagal stimulation, III, 9.
- and Braun-Menendez, E., secretion of renin by intact kidney, III, 306.
- Croxatto, F., Croxatto, R., and Donoso, R., serum-choline-esterase during excitation of abdominal vagus, III, 628.
- and Croxatto, R., serum-choline-esterase and pathological conditions, III, 715.
- See also Badilla, M., Croxatto, H., Croxatto, R., Herve, L., Luco Valenzuela, J., and Salvestrini, H.
- Huidobro Toro, F. G. See under Huidobro, F.
- Huijzenka, K. A., Brofman, B. L., and Wiggers, C. J., ineffectiveness of adrenal cortical extracts in standardised haemorrhagic shock, III, 807.
- Huizing, H. C., importance of regression in hearing and of physical, physiological, and psychological factors for hearing aids, III, 556.
- Hulbert, H. M., and Hirschfelder, J. O., transmission coefficient in the theory of absolute reaction rates, I, 230.
See also Eyring, H.
- Hull, E. See Galbreath, W. R.
- Hully, H. H. See Fuson, R. C.
- Hulpieu, H. R., and Welch, R. C., gravity writing lever for respiratory tambours, III, 447.
- Hulsmann, J. D., and Nitardy, F. W., single-dose emergency hypodermic unit, III, 540.
- Hultgren, R. See Carapella, L. A.
- Hulthen, L., scattering of neutrons by protons, I, 246.
- Hultquist, G., and Torgersen, O., Schuller-Christian disease in adult, III, 78.
- Humber, J. B. See Miller, J. J., jun.
- Hume, C. M., detection of mastitis in New Zealand dairy herds. I. Field outfit for bromothymol test, III, 832.
- Hume, D. N., and Harris, W. E., improved salt bridge for polarographic and potentiometric measurements, I, 265.
See also Kolthoff, I. M.
- Hume, E. M., determination of vitamin-A, III, 752.
- Hume, E. P., effect of short days on development of fall-blooming chrysanthemums, III, 537. Response of plants to intermittent supplementary light, III, 778.
- Hume-Rothery, W., determination of equilibrium diagrams by X-ray methods. II, I, 202.
See also Chalmers, J. A.
- Humphel, H. See Swenson, T. L.
- Hummel, F. C., Galbraith, H., Macy, I. G., Shepherd, M. L., and Williams, H. H., chemical composition of twenty-two common foods and comparison of analytical with calculated values of diets, III, 404.
- Macy, I. G., and Shepherd, M. L., disappearance of cellulose and hemicellulose from digestive tracts of children, III, 495.
See also Beach, E. F., and Teague, D. M.
- Hummel, K. P., difference in response of mice of different strains to human pregnancy urine, III, 173.
- Hummoller, F. L., titrimetric determination of small amounts of glucose, II, 288.
- Humphrey, J. H., diffusing factors. III. Biological assay, III, 683. Antigenic properties of hyaluronic acid, III, 925.
- Humphrey, R. R. See Fankhauser, G.
- Humphreys, D. D. See Henze, H. R.
- Humphreys, D. R., fatal phenothiazine poisoning, III, 267.
- Humphreys, E. See Kirsner, J. B.
- Humphreys, R. M., oral pharyngeal leishmaniasis treated with pentamidine, III, 50.
- Humphreys, S. See Wintrobe, M. M.
- Humphries, E. C., wilt of cacao fruits (*Theobroma cacao*). I. Causes. II. Carbohydrate metabolism with reference to wilt susceptibility, III, 535.
- Hungate, R. E., culture of, and cellulose digestion by, a cattle ciliate, III, 893.
- Hundiecker, H., macrocyclic ring systems. I. Preparation and cyclisation of ω -halogenoacyl acylacetic esters. II. Synthesis of α -muscone, II, 119, 135. Synthesis of *cis*- and *trans*-form of an isoambretolide and of civetone, II, 151.
- Hunt, A. H. See Hawking, F.
- Hunt, C. H., Burroughs, E. W., Bethke, R. M., Schalk, A. F., and Gerlaugh, P., riboflavin and thiamin in rumen content of cattle. II, III, 824.
- Hunt, H. See Crog, R. S.
- Hunt, T. E., mitotic activity in anterior hypophysis of female rats of different age groups and at different periods of day, III, 808.
- Hunt, V. C., management of peptic ulcer, III, 177.
- Hunt, W. H., Walter, L. A., and Fosbinder, R. J., organic mercurials; influence of structure on absorption and excretion, III, 139.
- Hunt, W. T., and Betts, E. A., visual problems: assumptions and data, III, 105.
- Hunter, A., origin of the coronum lines, I, 45.
- Hunter, Andrew. See Gornall, A. G.
- Hunter, A. R., dangers of pentothal sodium anaesthesia, III, 763.
- Hunter, B. A., high mol. wt. aliphatic compounds of nitrogen and sulphur, II, 218.
- Hunter, F. E., and Levy, S. R., occurrence and rate of turnover of sphingomyelin in tissues of healthy and tumour-bearing rats, III, 337.
- Hunter, F. R., Stringer, L. D., and Sterling, F. R., permeability of chicken erythrocyte after reversal of haemolysis, III, 786.
- Hunter, F. T., Kip, A. F., and Irvine, J. W., jun., radioactive tracer studies on arsenic injected as potassium arsenite. I. Excretion and localisation in tissues, III, 421.
See also Lowry, O. H.
- Hunter, G., and Tuba, J., rose hips and evergreens as sources of vitamin-C, III, 335.
- Hunter, J. See Solandt, D. Y.
- Hunter, J. G., chlorosis of bracken due to manganese deficiency, III, 72.
See also Cromwell, B. T.
- Hunter, J. H., and Kolhoff, H. G., sulphanilamide compounds. VII. Thiazoline derivatives, II, 209.
- See also Nathan, A. H.
- Hunter, L. See Hopkins, G.
- Hunter, L. B. See Ellis, P. M.
- Hunter, M. W., and Sawin, P. B., effects of thyroidectomy on skull of domestic rabbit, III, 153.
- Hunter, R. S., photo-electric tristimulus colorimetry with three filters, I, 25.
- Huntington, H. B., energies for self-diffusion in zinc, I, 254.
- Huntington, R. See Hass, G. M.
- Huntress, E. H., and Gladding, (Miss) J. V. K., synthesis of aminobenzoylenecarbamides and of dihydroxyquinolines isomeric with "luminol," II, 107.
- Pfister, K., 3rd, and Pfister, K. H. T., fluorenones and diphenic acids. IX. Establishment of authentic 1- and 4-bromo-fluorenones, II, 136.
- Hunziker, F. See Wettstein, A.
- Hurd, C. D., and Winberg, H. E., behaviour of pyrogallol trimethyl ether and 3:4:5-trimethoxybenzonitrile with Grignard reagents, II, 34.
- Hurd, C. F., Cashion, F. W., and Perletz, P., formation of ketens, II, 353.
- Hurdis, E. C., and Smyth, C. P., dipole moments in vapour state and resonance effects in substituted benzenes, I, 6. Dipole moment, induction, and resonance in nitroethane and chloronitroparaffins, I, 116. Structural effects of unsaturation and hyperconjugation in aldehydes, nitriles, and chlorides as shown by their dipole moments in the vapour state, I, 144.
- Hurel-Py, G., media which permit unlimited growth of prothallus of *Asplenium*, III, 216.
- Hurlbut, C. S., jun., sampleite, a new mineral from Chuquicamata, Chile, I, 172.
See also Larsen, E. S.
- Hurley, P. M., and Goodman, C., helium age measurement. I. Preliminary magnetite index, I, 288. Helium retention in common rock minerals, I, 289.
- Burni, H., apparatus for delivering measured quantities of medium, III, 687.
- Hurst, A. See Dick, R. C. S.
- Hurst, C. See Fatherree, T. J.
- Hurst, E. W., experimental demyelination of central nervous system. III. Poisoning with potassium cyanide, sodium azide, hydroxylamine, narcotics, carbon monoxide, etc., with consideration of bilateral necrosis occurring in basal nuclei, III, 308.
- Cooke, B. T., and Melvin, P., "nervous distemper" in dogs: pathological and experimental study, III, 851.
- Hurst, V., and Turner, C. W., lactogenic hormone content of mouse pituitary compared with other species, III, 25.
See also Koger, M.
- Hurtado, A., chronic mountain sickness, III, 633.
- Burkitt, E. S., and Arnheim, E. E., meconium ileus associated with stenosis of pancreatic ducts, III, 35.

- Hurwitz, A., and Prien, E. L., use of sulphanilamide locally in microaerophilic streptococcal infection, III, 583.
See also Davis, W. A.
- Hurwitz, C. See Parks, R. Q.
- Hurwitz, M., and Fridberg, L., relationship of heart size to cholesterol content in experimental atherosclerosis of rabbit, III, 91.
- Hurwitz, S. H. See Courtright, L. J.
- Hurxthal, L. M., treatment of gigantism: observations on pituitary giant for 6 years, III, 560.
- Huse, G. See Powell, H. M.
- Husemann, E., macro-molecular compounds. CCXXXIX. Constitution of wood polyoses, II, 322.
- and Schulz, G. V., comparative osmotic and viscosimetric mol. wt. determinations on fractionated and unfractionated nitrocelluloses, I, 90.
- and Weber, O. H., determination of mol. wt. of cellulose by an end-group method, I, 8.
See also Schulz, G. V., and Weber, O. H.
- Huston, R. C., and Meloy, C. R., condensation of methyldipropylcarbinols with phenol in presence of aluminium chloride, II, 87.
- Huszak, S., action of malonic acid on respiration of nerve, III, 669. Dehydrogenation of pyruvic acid in nervous tissue, III, 839.
- Hutchens, J. O., Kopac, M. J., and Krahf, M. E., cytochrome oxidase content of centrifugally separated fractions of unfertilised *Arbacia* eggs, III, 26.
- Hutchings, B. L., and Peterson, W. H., amino-acid requirements of *Lactobacillus casei*, III, 773.
See also Bohonos, N.
- Hutchinson, G. E., biogeochemistry of aluminium and related elements, III, 658.
- Hutchinson, R. C., phosphate deposits in New Guinea, I, 289.
- Hutchinson, S. J. See Davidson, F. A.
- Hutchison, D. A. See Johnston, H. L.
- Hutner, S. H., growth requirements of *Erysipelothrix* and *Listeria*, III, 63.
- and Zahl, P. A., action of sulphanilamide compounds on lethal factor of bacterial toxins, III, 416. Action of bacterial toxins on tumours. IV. Distribution of tumour-haemorrhage agents among bacterial species, III, 897.
See also Zahl, P. A.
- Hutson, A. M., subacute and chronic meningococcal septicaemia, III, 582.
- Hutt, F. B., and Mueller, C. D., linkage of polydactyly with multiple spurs and duplex comb in fowl, III, 451. Independent identical mutations to albinism in sex chromosome of fowl, III, 707.
See also Lamoreux, W. F., Mueller, C. D., and Scholes, J. C.
- Hutton, E. L., aetiology and treatment of neurosyphilis, III, 235. Results of prefrontal leucotomy, III, 725.
- Hutton, J. H., precautions for pituitary and thyroid medication, III, 24. Choice of anaesthetic agents and methods for surgical procedures, III, 344.
- Hwang, K. See Hsu, S.
- Hwang, S. C. See Ciao, T. P.
- Hybbinette, A. G., and Sandell, E. B., determination of germanium in silicate rocks, I, 70.
- Hyde, B. See Hyde, L.
- Hyde, G. M. See Schwind, J. L.
- Hyde, L., and Hyde, B., primary Friedlaender pneumonia, III, 691.
- Hyde, R. A., influenza A virus in rabbit, rat, and guinea-pig, III, 287.
- Hyde, R. R. See Gardner, R. E.
- Hylkema, B. S., examination of visual field by determining fusion frequency, III, 803. Fusion frequency with intermittent light under various circumstances, III, 803.
- Hyman, C., and Chambers, R., effect of adrenal cortical compounds on oedema formation of frog's hind limbs, III, 807.
See also Duncan, G. W.
- Hyman, H. H. See Waring, C. E.
- Hyman, J. B., vacuum take-off receiver for solids, I, 168.
- Hyslop, F., Palmes, E. D., Alford, W. C., Monaco, A. R., and Fairhall, L. T., toxicology [and determination] of beryllium, III, 834.
- Hyslop, H. W. See Vollmer, Hubert.
- I. Iball, J. See Burrows, H.
- Ibrahim, F. G., two glaucomatous families, III, 470.
- Ichniowski, C. T. See Hueper, W. C.
- Icke, R. N. See Alies, G. A., and Redemann, C. E.
- Iddles, H. A., Chadwick, D. H., Clapp, J. W., and Hart, R. T., formation and rearrangement of o-tolyl benzhydrol ether, II, 31.
- Ide, W. S., Baltzly, R., and Buck, J. S., quaternary salts containing aryloxy-ethyl and -propyl groups, II, 31.
See also Baltzly, R., and Buck, J. S.
- Idzkowsky, H. J., and Starkey, W. F., effect of ovarian transplants on adrenal X-zone of castrated male mice, III, 322.
- Ievins, A., and Grinstein, V., determination of calcium as tungstate, I, 163.
- and Straumanis, M., lattice constants of calcite determined by rotating-crystal method, I, 221.
- Ifft, J. D., male activity in newt, III, 743.
- Iglauer, A. See Bernhauer, K.
- Igolen, G., essential oil of lily (*Lilium candidum*, L.), III, 539.
- Ikawa, M. See Nishina, Y., and Pauling, L.
- Ikeda, C. See Pauling, L.
- Ikin, E. W. See Taylor, G. L.
- Ikornikova, N. J., and Godlevski, M. N., new borate—metahydroboracite, I, 105.
- Iliff, A., Kinsman, G. M., Hill, R. M., and Lewis, R. C., approximate analysis of carbon dioxide and oxygen in gas samples, III, 871.
See also Lewis, R. C.
- Iljin, G. See Schmuk, A.
- Il'linov, V. V., vapour pressure of product of reaction between dry sulphur dioxide and nitrogen dioxide, I, 149. Kinetic study of heterogeneous interaction between dry sulphur dioxide and nitrogen dioxide below 150°, I, 156.
- Imagawa, H. See Yamafuji, K.
- Immendorfer, I. See Muller, Hans.
- Imre, L., applicability of radioactive indicator method to determining surface of solid materials, I, I, 13.
- Inagaki, H. See Sugasawa, S.
- Inciukaya, K. See Ulyott, P.
- Ingalls, E. N. See Wyman, J., jun.
- Ingelfinger, F. J., and Moss, R. E., motility of small intestine in sprue, III, 813.
See also Abbott, W. O., and Elsom, K. A.
- Ingessoll, L. R. See Rudnick, P.
- Ingessoll, E., and Barksdale, J. D., iridescent garnet from the Adelaide mining district, Nevada, I, 244.
See also Morey, G. W.
- Ingham, D. W., coarctation of aorta, III, 162.
- Ingham, W. N. See Keevil, N. B.
- Ingle, A. See Ralston, A. W.
- Ingle, D. J., adrenal cortex, III, 109.
- Ginther, G. B., and Nezamis, J., effect of diet in rats on adrenal weights and on survival following adrenalectomy, III, 883.
See also Kuizenga, M. H.
- Ingle, R. T. See Langham, R. F.
- Ingold, C. K. See Bird, M. L.
- Ingraham, H. S., and Flood, A. J., outbreak of acute fluoride poisoning, III, 591.
See also Stebbins, E. L.
- Ingraham, L. J. See Bunting, M. I.
- Ingraham, L. P. See Bischoff, Fritz.
- Ingram, A. R., and Luder, W. F., ionisation constant of morpholine in water, I, 128. Reactions of morpholine, II, 108.
- Ingram, G., silver vanadate: use in micro-combustion of organic compounds, II, 403.
- Inhoffen, H. H., and Zühlstorff, G., conversion of sterols into aromatic compounds. V. Aromatisation of ring A by migration of methyl, II, 332.
- Zühlstorff, G., and Minlon, H., rearrangement reactions of brominated derivatives of cholesterol. VII. Preparation of $\Delta^{1:2-4:5}$ -androstan-17-ol-3-one, II, 270.
- Inkster, C. See Fisher, H.
- Innes, J. See Davidson, L. S. P.
- Innes, J. R. M., neoplastic diseases of testis in animals, III, 128.
See also Collier, H. O. J.
- Insole, H. See Alexander, L. T.
- Institute of Physics, eye in industry, III, 16.
- Irany, E. P., viscosity function. IV. Non-ideal systems, I, 274.
- Iredale, T., photo-enolisation of ketones, I, 40.
- Irlichimovitch, A. L., peculiarities in histological differentiation of pituitary body of *Bufo bufo* and *Pelobates fuscus* tadpoles, III, 323.
- Irimescu, I., and Chirnoaga, E., micro-method for halogen determination in organic molecules according to A. Stepanow's principle, II, 403.
- Irish, D. D. See Spence, H. C.
- Irons, E. J., contact angles, I, 303.
- Irreverre, F., and Sullivan, M. X., "naphthylidenesulphanilamide" derivatives, II, 39.
- Irvine, A. R. See Kahler, J. E.
- Irvine, J. W., jun., cyclotron targets; preparation and radiochemical separations. I. Arsenic and germanium, I, 95.
See also Hunter, F. T., Lowry, O. H., and Reiner, L.
- Irvine, R. See Kahler, J. E.
- Irving, G. W., and Du Vigneaud, V., hormones of posterior pituitary, III, 561.
- Irving, Harry, and Curtis, E. G., action of alkalis on substituted benzodioxins, II, 308.
- Irving, Hazel, stability of frozen thromboplastin extracts, III, 625.
- Irving, J. T., action of fluorine on teeth of rachitic rats, III, 496.
- Irving, L., Scholander, P. F., and Edwards, G. A., experiments on carbon monoxide poisoning in tents and snow houses, III, 837.
- Scholander, P. F., and Grinnell, S. W., respiration of sloths, III, 791.
See also Hangaard, N., and Scholander, P. F.
- Irwin, D., and O'Connell, D. C., vole acid-fast bacillus vaccination in experimental tuberculosis, III, 851.
- Irwin, J. O., calculation of error of biological assays, III, 855.
- Isaac, W. E., Finlayson, M. H., and Simon, M. G., agar from S. African seaweeds, III, 601.
- Isaacs, M. L., colorimetric determination of vitamin-C, III, 258.
- Isaacs, R., dynamics of symptom production in splenomegaly [and nervous pathways], III, 548.
- Isackson, N. See Hedvall, J. A.
- Isbell, E. R. See Mitchell, H. K., and Thompson, R. C.
- Isbell, H. S., preparation of lower aldonic acids by oxidation of sugars in alkaline solution, II, 217.
and Frush, H. L., ring structures and mutarotations of modifications of D-galacturonic acid, II, 352.
- Isberg, E. M. See Roche, C. F.
- Isenberger, R. M., and Carroll, M. C., muscle flap repair of perforations in larger arteries of dog, III, 231.
- Ishenhour, C. E. See Dill, L. V.
- Ishidate, M., and Sakaguchi, T., detection of native protein with pH indicators, II, 404.
- Ishiguro, T. See Keimatsu, S.
- Ishii, K. See Tamamushi, B.
- Iskraut, R., Compton effect for mesons, I, 3.
- Israels, M. C. G., erythropoiesis in scurvy, III, 711.
- Issidoridis, A. See Schwab, G. M.
- Ita, P. See Faltis, F.
- Itkina, E. S., occurrence of copper in oil-field waters, I, 73.
See also Guljaeva, L. A.

- Itoh, J. See Kikuchi, S.
 Ittner, N. R., and Hughes, E. H., riboflavin content of pork muscle, III, 255.
 Ivanenko, L., and Sokolov, A., dipole character of mesons and polarisation of vacuum, I, 48.
 Ivanov, A. A. See Godlevski, M. N.
 Ivanov, A. N., and Gapon, E. N., ion exchange between solid and liquid phases. I. Dependence of cation exchange on dilution, I, 124.
 Ivanov, G. M., failure of elastic-viscous material in process of relaxation, I, 57.
 Ivanov, V. I. See Favorski, A. E.
 Ivanov-Emin, B. N. See Alimarin, I. P.
 Iverson, H. A., and Pratt, L. W., sodium deoxycholate-lysed antigen for production of pneumococcus antiserum, III, 437.
 Ivy, A. C., physiology of work, III, 53.
 Annegers, J. H., and Atkinson, A. J., effect of aloes and podophyllum and Carter's "Little Liver Pills" on bile formation, III, 137.
 and Berman, A. L., rationale of bile salt therapy in biliary tract disease, III, 512.
 and Harris, S. C., venoclysis unit resistant to freezing, III, 377.
 See also Annegers, J. H., Berman, A. L., Carlson, A. J., Foltz, E. E., Freeman, S., Greengard, H., Grodins, F. S., Laing, G. H., Nelson, D., and Werch, S. C.
 Iwashita, K., Mizoguchi, S., and Yasuda, T., treatment of male gonorrhoea with intravenous injection of *p*-aminobenzenesulphon-acetamide, III, 582.
 Iyengar, N. K., prothrombin and plasma-trypsin, III, 457. Anti-tryptic components in blood, III, 458. Trypsin-kinase in blood, III, 458.
 Izrailevitsch, E. A., physico-chemical investigations of solutions in liquefied gases. XXIX. Catalytic activity of nitro-indicators in liquid ammonia; salt effect in ammonolysis of pilocarpine, I, 311.
 Izumi, E. M. See Hammon, W. McD.
 Izumo, T. See Uno, S.
- J.
 Jablons, B. and Cohen, J., photo-electric measurement of circulation time, III, 868.
 Jacini, G., 8-aminoquinaldine, II, 140.
 Jackman, R. J. See Bargen, J. A.
 Jackson, C. H. N., and Vanderplank, F. L., diameters of mammalian erythrocytes, III, 158.
 Jackson, D. See Follis, R. H., jun.
 Jackson, E. See Scott, T. F. M.
 Jackson, Edward, to measure the pupil, III, 104. Practical importance of aniseikonia, III, 386.
 Jackson, E. L. See Smith, M. I.
 Jackson, F. B. See Turner, J. C.
 Jackson, I. M., cry of the child in utero, III, 871.
 Jackson, M. M., anticipatory cardiac acceleration during sleep, III, 459.
 Jackson, R. H., and Jackson, R. H., jun., diminishing incidence of primary and secondary infection in surgical wounds, III, 431.
 Jackson, R. H., jun. See Jackson, R. H.
 Jackson, R. L., and Kenefick, dietary ratios for child with diabetes mellitus, III, 404. See also Boyd, J. D.
 Jackson, S. R. See Simons, J. H.
 Jacob, J. P. See Posternak, T.
 Jacob, M. M. See Mattick, A. T. R.
 Jacob, W. C., and White-Stevens, R. H., minor element nutrition of vegetable crop plants; interrelation of potassium, boron, and magnesium on flavour and sugar content of melons, III, 538.
 Jacobi, E. See Schopf, C.
 Jacobs, A. H., enterobiasis in children; incidence, symptomatology, and diagnosis with simplified Scotch cellulose tape technique, III, 247. See also Rantz, L. A.
 Jacobs, J. L., and Houghton, J. D., complement-fixation tests on rabbits with Brown-Pearce carcinoma, III, 570.
- Jacobs, J. L., Kelley, J. J., and Sommers, S. C., hereditary predisposition to sensitisation in guinea-pigs, III, 697.
 Jacobs, L. See Rees, C. W.
 Jacobs, M. B. See Kirshbaum, J. D.
 Jacobs, T. L., and Whitcher, W. J., acetylenic ethers. III. Halogen derivatives of phenoxy-acetylene, II, 89.
 Jacobs, W. A., and Craig, L. C., aconite alkaloids. XI. Action of methyl-alcoholic sodium hydroxide on atisine, isoatisine, and dihydroatisine. XII. Benzoylheteroatisine, a new alkaloid from *Aconitum heterophyllum*, II, 210. Veratrine alkaloids. XV. Rubijervine and isorubijervine. XVI. Formulation of jervine. XVII. Germine; its formulation and degradation. XIX. Protoveratrine and its alkamine, protoverine, II, 246, 313.
 See also Craig, L. C., and Gould, R. G., jun.
 Jacobsohn, S., large two-lens quartz spectrograph of compact design, I, 25.
 Jacobson, E., and Kraft, F. L., contraction potentials in man during reading, III, 232.
 Jacobson, J. N., sciatica; radiological view, III, 97.
 Jacobson, S. D., Leichtentritt, B., and Lyons, R. H., effect of acid and alkaline salts on patients with rheumatoid arthritis, III, 269.
 and Lyons, R. H., changes in blood volume produced by diabetic acidosis, III, 87.
 Jacoby, F. C. See Wokes, F.
 Jacoby, T. F. See Theis, E. R.
 Jacopetti, M., conductometric behaviour of lithium chloride solutions, I, 154.
 Jacquot, R. See Handoin, L.
 Jadassohn, W., Fierz-David, H. E., and Huber, A., significance of length of molecule on anaphylaxis-like reactions caused by sodium 8'-acylamido-2'-hydroxynaphthalene-1'-azobenzene-2:5-disulphonate, III, 268.
 Jaeckel, R., properties of organic circulating materials for diffusion pumps in technical operation and a new form of oil diffusion pump, I, 103.
 Jackh-Tettweiler, I. See Schopf, C.
 Jaeger, J. C., energy loss by radiation of fast electrons in a Coulomb field, I, 189.
 Jaeger, R., lead equivalence of thallium with respect to X-rays, I, 245.
 Janecke, E., quaternary system of sodium, potassium, calcium, and magnesium nitrates and component systems, I, 129.
 Jannes, L. See Virtanen, A. I.
 Jaffe, G., statistical theory of liquids. I. and II., I, 86, 197. See also Amis, E. S.
 Jaffe, G. M., and Day, A. R., reactions of phenanthraquinone and retenequinone with amines under pressure, II, 208.
 Jaffe, H. See Gould, B. S.
 Jaffe, H. L., Meigs, J. V., Graves, R. C., and Kickham, C. J. E., ureteral and renal complication of carcinoma of cervix: classification and management, III, 184. See also Lichtenstein, L., and Master, A. M.
 Jaffe, I., and Brockway, G., use of male sex hormone in endocrine disorders in children, III, 34.
 and Byron, C. S., potassium tolerance tests as aid in diagnosing adrenal insufficiency, III, 110.
 Jaffé, W. G., approximate estimation of isolectric point of soluble proteins, III, 517. Hurain, new plant protease from *Hura crepitans*, III, 843.
 Jaffey, A. H. See Freed, S.
 Jagitsch, R., reaction mechanism in double decomposition between oxides and salts of oxy-acids in powder mixtures. I., I, 183.
 Jahn, E. C. See McNair, J. J.
 Jahn, H. A., diffuse scattering of X-rays by crystals. II. Detailed calculation of the surfaces of isodiffusion for the (002), (112), (222), and (110) reflexions of sodium single crystals, I, 32.
 Jahn, T. L., and Wulff, V. J., allocation of electrical responses from compound eye of grasshoppers, III, 20. Effect of temperature on retinal action potential, III, 386. Retinal pigment distribution in relation to a diurnal rhythm in compound eye of *Dytiscus*, III, 641. Influence of visual diurnal rhythm on flicker response contours of *Dytiscus*, III, 641.
 Jahnz, W. See Hückel, W.
 Jahsman, W. E., Durham, R. H., and Dallis, N. P., recognition of incipient thrombo-angiitis obliterans in young draftees, III, 632.
 Jain, D. C. See Yajnik, N. A.
 Jakob, W. See Freudenberg, K.
 Jakobowicz, R., Bick, M., and Bryce, L., comparison of agglutinin content of rabbit's serum after injection of liquid and dried serum of rabbits immunised with human A group cells, III, 82.
 Jakochin, M. M., dielectric polarisation of complex compounds of platinum, I, 51. Ionic constant of matter in solid state, I, 81.
 Jakus, M. A. See Schmitt, F. O.
 James, B. E., comparison of chemical composition of artificially produced parthenocarpic fruits and normal seeded fruits of peppers, III, 533.
 James, G. V. See Booth, R. G.
 James, L. H. See Nolte, A., and Young, R. M.
 James, N., and Sutherland, M. L., numbers of bacteria developing on plates in relation to soil environment, III, 687.
 James, T. H., reduction of silver oxalate, I, 133. Rate of solution of magnesium in acids, I, 157. Influence of age and surface conditions on reactivity of precipitates, I, 158. Intermediate step in autoxidation of quinol; aerial fogging of photographic emulsions, I, 206. Photographic development as a catalysed heterogeneous reaction, I, 259.
 James, W. O., and Cragg, J. M., ascorbic acid system as an agent in barley respiration, III, 536. See also Wohl, K.
 Jameson, E., and Alvarez-Tostado, C., solubility and electrophoretic studies of serum-globulins. I. γ -Globulin, I, 200.
 Alvarez-Tostado, C., and Sortor, H. H., electrophoresis of new-born calf serum, III, 303.
 Jamison, (Miss) M. M., and Turner, E. E., separation of diastereoisomeric acids by selective adsorption on optically inactive material, II, 14.
 Jampolsky, L. M. See Plattner, P. A.
 Jander, G. See Karbe, K.
 Janecke, J. See Pfannstiel, K.
 Janes, R. G., calorogenic action of stilboestrol in rat, III, 30.
 Janett, W. See Ruzicka, L.
 Janeway, M. M. See Scott, J. R.
 Janke, A. [with Holota, J.], kinetics of amylase action, III, 683.
 Janney, F. R. See Winters, K. J.
 Janney, J. H. See Robinson, W. D., and Schwentker, F. F.
 Janoszyk, L., and Rochester, G. D., connexion between the penetrating non-ionising component of cosmic radiation and penetrating showers, I, 48. See also Rochester, G. D.
 Janot, M. M., and Chaigneau, M., decomposition of ascaridole by heat, II, 137.
 Janota, M., determination of gelatin, III, 928. See also Appel, M., Rambar, A. C., and Stryker, W. A.
 Jansen, A. B. A. See Baker, W.
 Jany, J., and Fenyo, I., separation of carbon dioxide from volatile sulphur oxides, I, 235.
 Janz, G. J., and Gordon, A. R., thermodynamics of aqueous solutions of sodium chloride at temperatures from 15° to 45° from e.m.f. measurements on cells with transference, I, 153.
 Japa, J., mitotic activity of normal human bone marrow, III, 81. Morphology and development of megakaryocytes [in normal human marrow], III, 548.

- Jaques, L. B.**, reaction of heparin with proteins and complex bases, III, 713. Reducing properties of fibrinogen, III, 787.
- Jardini, I.**, volumetric changes in fixed tooth specimens, III, 710.
- Jarisch, A.** See Amann, A.
- Jarmen, J.** See Friedman, B.
- Jarmol, J.** See Sullivan, R. A.
- Jarrell, R. F.**, stigmatic grating spectrograph for industrial laboratories, I, 102. See also Frondel, C.
- Jarrett, B. A.** See Broome, K. D.
- Jaschitschenko, M. L.** See Starik, I. E.
- Jasper, H. H.** See Swank, R. L.
- Jasper, J. J., and Rosenstein, L.**, effect of temperature on surface tension and density of halogen-substituted acetic acids, I, 9. See also Bright, J. R.
- Jasperson, H.** See Hilditch, T. P.
- Jass, H.** See Hazlet, S. E.
- Jastschchenko, M.** See Polesitski, A.
- Jaszberenyi, J.** See Ludany, G.
- Jaton, A.** See Guigoz, M.
- Jauch, J. M.**, meson theory of magnetic moment of proton and neutron, I, 247.
- Jaure, G. G.**, heat production in warm-blooded animals and constancy of body-temperature, III, 259. Determining fading away of after-images, III, 878.
- Javert, C. T., Macri, C., and Kuder, K.**, minerals and toxæmias of pregnancy, III, 479.
- Jaycox, E. K.** See Ruehle, A. E.
- Jayne, E. P.** See Errington, B. J.
- Jeans, P. C.**, feeding of healthy infants and children, III, 573. See also Russin, L. A.
- Jeffieriss, F. G. J., and McElligot, G. L. M.**, sulphathiazole in gonorrhœa, III, 759.
- Jefferson, A. A.** See Elmes, P. C.
- Jefferson, N. C.** See West, H. D.
- Jeffies, J. H. E.** See Staveley, L. A. K.
- Jeffreys, C. E. P.** See Haagen-Smit, A. J.
- Jeffs, D.** See Ettinger, G. H.
- Jeger, O.** See Ruzicka, L.
- Jeghers, H.**, appearance of tongue as index of nutritional deficiency, III, 482.
- Jelinek, C. F.** See Adams, R.
- Jelley, E. E.**, crystallographic microscopy, I, 186.
- Jellinek, E. M.**, death from alcoholism in United States in 1940, III, 677.
- Jenckel, E.**, setting temperature of high-molecular glasses and their chemical structure, I, 86. and Braucker, E., polyacrylic acid glasses, I, 65.
- and Komor, J., volatility, diffusion, and vapour pressure in system acetophenone-novolak, I, 224.
- Jendrassik, L., and Polgar, A.**, simplification of iodometric titration in blood-sugar determination by ferricyanide method, III, 715.
- Jenkins, F. A.** See Dowling, H. F.
- Jenkins, G. L.** See Murphy, H. W.
- Jenkins, G. N.** See Bacon, J. D. S.
- Jenkins, J. A., and McGeorge, M.**, radium and gastric acidity, III, 327.
- Jenkins, J. C.** See Anderson, B. G.
- Jenkinson, E. L.** See De Takats, G.
- Jennings, J. R.** See Jordan, C. F.
- Jennings, M. A.** See Chain, E.
- Jennings, P. A., and Patterson, W. H.**, sulphamethazine in children, III, 340.
- Jennings, S.**, treatment of mange with tetraethylthiuram monosulphide, III, 346.
- Jenny, H.** See Elgahaly, M. M.
- Jenrette, W. V.** See Fairhall, L. T.
- Jensen, C. W.** See Boyer, P. D.
- Jensen, E.**, pyrrhotite; melting relationships and composition, I, 44.
- Jensen, H., and Tenenbaum, L. E.**, purification of catecholase (tyrosinase), III, 519. See also Tenenbaum, L. E.
- Jensen, Hans.** See Hartecck, P.
- Jensen, J. L., Shantz, E. M., Embree, N. D., Cowley, J. D., and Harris, P. L.**, biological activity of vitamin-A₂, III, 822.
- Jensen, L. B., and Hess, W. R.**, fermentation of meat products by the genus *Bacillus*, III, 207.
- Jensen, N. K., Johnsrudd, L. W., and Nelson, M. C.**, local application of sulphanilamide in compound fractures, III, 263.
- Jensen, P.** See Flammersfield, A.
- Jensen, W. I.** See Lewis, K. H.
- Jentschke, W.** See Stetter, G.
- Jenter, A., and Calame, A.**, intraperitoneal administration of sulphanilamidothiazole, III, 194.
- Jequier-Doge, E.**, evaluation of anti-pernicious anaemia liver extracts, III, 159.
- Jerome, J.** See Adams, C. O.
- Jervey, J. W.**, hearing aids and rôle of otologist, III, 805.
- Jervis, G. A.**, occurrences of brain haemorrhages in choline-deficient rats, III, 333. Forssman's "carotid syndrome," III, 467. Effect of vitamin-C deficiency on metabolism of alcohol, III, 677. and Strassburger, P. J., Guillain-Barre syndrome ("infectious polyneuritis") and acute anterior poliomyelitis, III, 636.
- Jeshikov, I.**, peculiarities in organisation of females of *Fumea*, III, 223. Organ reduction in ontogenesis, III, 223.
- Jessup, R. S.**, heat of combustion of benzoic acid with reference to standardisation of bomb calorimeters, I, 228.
- Jette, E. R.** See Andersen, A. G. H.
- Jetter, U.** See Schmid, Gerhard.
- Jetter, W. W., and McLean, R.**, biochemical changes in body fluids after death, III, 714. Poisoning by synergistic effect of phenobarbital and ethyl alcohol, III, 833. and Moritz, A. R., changes in magnesium and chloride contents of blood from drowning in fresh and in sea water, III, 459.
- Jewett, H. J.** See Howard, J. E.
- Jex-Blake, A. J.**, fatal bee sting poisoning, III, 424.
- Jezukawicz, J. J.** See Mueller, J. H., and Schoenbach, E. B.
- Jhingran, A. G.**, Cheviot granite, I, 268.
- Jirgensons, B.**, determination of mol. wt. by precipitation-titration, I, 41. Determination of mol. wt. and particle form of breakdown products of gelatin by precipitation-titration, II, 18. See also Schulz, G. V.
- Jochinke, H.** See Helferich, B.
- Jochmann, I.** See Bredereck, H.
- Jodi, R.**, fine structure of lignins, I, 195.
- Joel, C. A.**, clinical results of sublingual administration of methyltestosterone, III, 121. Biology of human spermatozoa, III, 175. Dosage of female sex hormone, oestradiol, and anhydrohydroxyprogesterone by sublingual application, III, 241. Action of gynaecogenic and androgenic hormones on gonads and pituitary of mature male rats, III, 481. Enzyme chemistry of human sperm, III, 652. Pituitary changes following X-irradiation of adult rat's testis, III, 812.
- Jörder, H.** See Staudinger, Hermann.
- Jörnstad, E.** See Sillén, L. G.
- Joffe, E. M., and Nikitin, B. A.**, distribution in systems with anomalous mixed crystals. I. Systems of the type $\text{NH}_4\text{Cl}-\text{FeCl}_3$ and $\text{NH}_4\text{Cl}-\text{MnCl}_2-\text{H}_2\text{O}$. II. Systems of the type inorganic salt-organic dye. III. Equilibrium between anomalous mixed crystals and solution, I, 302.
- Joffe, M., and Harris, P. L.**, biological potency of natural tocopherols and derivatives, III, 668.
- Joglekar, G. D.**, laboratory-type air separator, I, 44.
- Johannsen, M. W., and Connor, C. A. R.**, cor pulmonale with bilateral aneurysms of pulmonary arteries, interventricular septal defect, patent ductus arteriosus, and terminal Azyer's syndrome, III, 630.
- Johansen, F. A.** See Faget, G. H.
- John, H. J.**, repeated glucose tolerance tests in hyperthyroidism, III, 108. Control of diabetes mellitus, III, 580. Disturbance of carbohydrate metabolism in hyperthyroidism, III, 644.
- Johnson, A. E., Eckman, M., Rumsey, C., and Barach, A. L.**, effects of adding carbon dioxide to oxygen-enriched atmospheres in low-pressure chambers, I, III, 95. See also Himwich, H.
- Johnson, A. W.** See Heilbron, I. M.
- Johnson, C. A.** See Wakerlin, G. E.
- Johnson, C. G.** See Mellanby, K.
- Johnson, C. H.** See De Núñez, E. H.
- Johnson, C. I.**, Ménière's disease, III, 168.
- Johnson, C. R.** See Koenig, R. A.
- Johnson, E.** See Lane, R. L.
- Johnson, E. A., and Rettger, L. F.**, comparative study of nutritional requirements of *Salmonella typhosa*, *S. pullorum*, and *S. gallinarum*, III, 607.
- Johnson, E. C.** See Bartels, E. C.
- Johnson, E. H.** See Wokes, F.
- Johnson, E. M.** See Becker, E. R., and Valleau, W. D.
- Johnson, F. H., Carver, C. M., and Harryman, W. K.**, luminous bacterial auxanograms in relation to heavy metals and narcotics, self-photographed in colour, III, 430. See also Brown, D. E.
- Johnson, F. R.** See Smetana, H.
- Johnson, G.**, physiology of bacteria-free culture of *Trichomonas vaginalis*. IV. Effect of pH and oxygen tension on population, III, 521. See also Trussell, R. E.
- Johnson, G. F.** See Wolfrom, M. L.
- Johnson, H. C.** See Badger, A. E.
- Johnson, H. W.**, toxæmias of pregnancy, III, 173.
- Johnson, J.**, viroplasm hypothesis, III, 73.
- Johnson, J. B.**, lyophile human plasma in haemophilia, III, 85. See also Andrew, W.
- Johnson, J. E.** See Rose, W. C.
- Johnson, K., and Degering, E. F.**, production of aldehydes and ketones from nitro-paraffins, II, 152. Utilisation of aliphatic nitro-compounds. V. Reduction of nitro-alcohols and -glycerols to the corresponding amines, II, 153.
- Johnson, L. V.** See Conners, C. A., and Eckardt, R. E.
- Johnson, M. J.** See Fontaine, F. E., Koepsell, H. J., and Van Lanen, J. M.
- Johnson, M. L.**, function of earthworm haemoglobin, III, 551. See also Abercrombie, M.
- Johnson, Myra L.**, degeneration and repair of rat retina in avitaminosis-A, III, 802.
- Johnson, M. W., and Starling, J. H.**, freezing myriapods for photographing, III, 363.
- Johnson, N. H.** See Leach, C. N.
- Johnson, O.** See Fajans, K.
- Johnson, P. R.** See Koelsch, C. F.
- Johnson, R.** See Sumerford, W. T.
- Johnson, R. E., Brouha, L., and Darling, R. C.**, test of physical fitness for strenuous exertion, III, 593.
- Brouha, L., Darling, R. C., Egaña, E., Forbes, W. H., and Graybiel, A.**, effects of a diet deficient in part of the vitamin-B complex on men doing manual labour, III, 498. See also Metheny, E., and Wald, G.
- Johnson, S. J.** See Seal, S. C.
- Johnson, T. B.**, pyrimidines. CLXXVIII. Chlorination of 2,4-diketotetrahydro-pyrimidines by action of a mixture of hydrogen peroxide and hydrochloric acid. CLXXIX. Reaction of hydrochloric acid with 5:5-dichloro-6-methylhydrouracil, II, 340. and Edens, C. O., complex formation between iodine and μ -thiodihydroglyoxalines, II, 105.
- Johnson, T. H.** See Shutte, R. P.
- Johnson, T. U.** See Slaughter, D., and Tobolowsky, N.
- Johnson, V.** See Shuler, R. H.
- Johnson, W. O.**, vaginal biopsy studies after total hysterectomy, III, 478.

- Johnson, W. S., introduction of angular methyl group; preparation of *cis*- and *trans*-1-keto-9-methyldecahydronaphthalene, II, 330.
- Johnson, W. W. A., and Norman, D. P., spectrographic detection and determination of halogens, I, 161.
See also Norman, D. P.
- Johnsrud, L. W. See Jensen, N. K.
- Johnston, C., and Deuel, H. J., *jun.*, ketosis. XXI. Comparative metabolism of the hexitols, III, 757.
See also Deuel, H. J., *jun.*
- Johnston, C. D. See Kenyon, A. T.
- Johnston, C. G., decompression in treatment of intestinal obstruction, III, 177.
- Johnston, C. R. K., grass hay fever, III, 70.
- Johnston, D. See Anderson, L. C.
- Johnston, F. A., and Roberts, L. J., iron requirement of children of early school age, III, 253.
- Johnston, F. D. See Rosenbaum, F. F.
- Johnston, G. See Green, J. A.
- Johnston, G. M. See Boyd, E. M.
- Johnston, H. L., and Davis, C. O., chemical separation of isotopes of hydrogen by addition of metals and compounds of metals to water, acids, and bases. I. Relative efficiencies of specific reactions; effects of factors other than temperature, I, 67.
- and Grilly, E. R., viscosities of carbon monoxide, helium, neon, and argon between 80° and 300° K; coefficients of viscosity, I, 86.
- and Hutchison, D. A., efficiency of electrolytic separation of chlorine isotopes, I, 21.
- Johnston, J. A., carbon dioxide generator [using dry-ice], I, 73.
- Johnston, M. W. See Conn, J. W.
- Johnston, S. A., and McBain, J. W., f.p. of solutions of typical colloidal electrolytes; soaps, sulphonates, sulphates, and bile salts, I, 200.
- Johnston, W. T. G. See Robertson, P. W.
- Johnstone, K. I., cultivation of organisms from single cells, III, 601.
- and Zinnemann, K., improved unheated blood tellurite medium for diagnosis of *C. diphtheriae*, III, 435.
- Jokl, E., and Schepers, G. W. H., support reaction and central nervous control of progression, III, 466.
See also Cluver, E. H.
- Jolliffe, A. W. See Keevil, N. B.
- Jolliffe, N., neuro-psychiatric manifestations of vitamin deficiencies, III, 574. Clinical aspects of vitamin-B deficiencies, III, 575.
- McLester, J. S., and Sherman, H. C., malnutrition in U.S.A., III, 185.
- Joly, P., failure of vertebrate ex hormones to affect insects, III, 28.
- Jonas, A. I., manganese-bearing veins in S.W. Virginia, I, 171.
- Jonas, L. See Starr, I.
- Jones, A. M., methyl chloride poisoning, III, 52.
- Jones, A. T., treatment of phosphorus burns, III, 424.
- Jones, B., halogenation of phenolic ethers and anilides. XIII. Arrhenius activation energies for di- and poly-substituted aromatic ethers. XIV. *m*-Substituted phenyl ethers, I, 38; II, 363. Ethers of 4-chloro-2-nitro-3:5-dimethylphenol, II, 363.
See also Haworth, R. D.
- Jones, B. F. See Thorn, G. W.
- Jones, C. A., Schoenborn, E. M., and Colburn, A. P., equilibrium still for miscible liquids; data on ethylene dichloride-toluene and ethanol-water, I, 227.
- Jones, C. B. See Potter, E. F.
- Jones, C. M., gastroenterology, III, 175.
- Jones, D. A. See Farmer, S. N.
- Jones, D. B., Divine, J. P., and Horn, M. J., availability of mesolanthionine for growth promotion when added to cystine-deficient diet, III, 337.
- Jones, D. G., and Lamoreux, W. F., estimation of comb size on live fowl, III, 813.
See also Lamoreux, W. F.
- Jones, E. B., sub-clinical anaemia of schoolchildren in Southern Rhodesia, III, 158.
- Jones, E. E., effect of 2:7-dihydroxynaphthalene on tumour incidence and growth of mammary gland in mice of the line A albino and C3H strains, III, 896.
- Jones, E. I., haemolytic anaemia due to sulphapyridine, III, 760.
- Jones, E. R., isolation of *B. anthracis* from industrial material with reference to resistance of spores to heat, III, 61. Seasonal variation in incidence of *Br. abortus* in raw milk, III, 919.
- Jones, E. R. H., and McCombie, J. T., polyene series. VI. Preparation of ethinylcarbinols from $\alpha\beta$ -unsaturated aldehydes. VIII. New anionotropic rearrangement; isomerisation of acetylenylcarbinols from $\alpha\beta$ -unsaturated aldehydes, II, 53, 249.
See also Heilbron, I. M.
- Jones, F. See Rees, C. W.
- Jones, F. A., haematemesis and melena, III, 653.
- Jones, F. G., complete culture medium prepared from human red cells, III, 917.
See also Stewart, D. J.
- Jones, F. W., Leech, P., and Sykes, C., precipitation in single crystals of silver-rich and copper-rich alloys of the silver-copper system, I, 198.
- Jones, G., and Ray, W. A., surface tension of solutions of electrolytes as a function of concentration. IV. Magnesium sulphate, I, 125.
- Jones, G. D. See McElvain, S. M., and Marvel, C. S.
- Jones, G. E. S., and Bucher, N. L. R., excretion of pituitary hormones in human urine, III, 561.
- Jones, G. M., *jun.*, periarteritis nodosa, III, 94.
- Jones, H. P., Rake, G., and Hamre, D. M., *Aspergillus flavus*. I. Biological properties of crude and purified aspergillic acid, III, 916.
See also Rake, G.
- Jones, H. A. See Jones, W. R.
- Jones, H. B. See Sheline, G. E.
- Jones, H. W., radiation treatment of carcinoma of cervix, III, 572.
See also Seegar, G. E.
- Jones, I. R., Haag, J. R., and Dougherty, R. W., relation of nutrition to breeding performance of dairy bulls, III, 494.
- Jones, J. E. See Bartlett, P. D.
- Jones, J. H., [determination of] halogens in halogenated fluoresceins, II, 148. Semi-micro-determination of sulphur in organic substances, II, 211.
- Jones, James H., and Foster, C., salt mixture for use with basal diets either low or high in phosphorus, III, 404.
See also Foster, C.
- Jones, James Homer, activity of osmotic coefficients of sodium chlorate by an isopiestic method, I, 278.
- Jones, J. I. M., and Elliot, J. F., biological assay of vitamin-D₃, III, 668.
- Jones, J. L., effect of vitamin-B₁ deprivation on appearance, growth rate, and course of Jensen rat sarcoma, III, 402.
- Jones, J. R. E., toxicity of metals to sticklebacks, III, 422. Toxicity of metals for *Polycelis*, III, 422. Oligodynamic action of metals, III, 591. Toxicity of anions, III, 591.
- Jones, J. W. See Ellis, W. G.
- Jones, L. R. See Gallagher, F. W., Muir, R. D., Roberts, E. C., and Van Bruggen, J. T.
- Jones, L. W., and Greaves, J. E., *Azotobacter chroococcum* and its relationship to accessory growth factors, III, 918.
- Jones, M. L. See Andrews, G. B.
- Jones, O. G., vaginoscope, III, 171.
- Jones, O. P., morphologic, physiologic, chemical, and biologic distinction of megaloblasts, III, 621.
- Jones, O. S., nervous stomach, III, 892.
- Jones, R. See McCullagh, E. P.
- Jones, R., *jun.*, aetiology and pathogenesis of acute haemorrhagic pancreatitis, III, 484.
- Jones, R. A., reactions after transfusion of stored blood, III, 369.
- Jones, R. G., and Nelson, W. O., relation of stilboestrol to carbohydrate metabolism, III, 648.
- Jones, Reuben G., organometallic compounds of titanium, zirconium, and lanthanum, II, 285.
- Jones, R. M. See Limarzi, L. R.
- Jones, R. N. See Fieser, L. F.
- Jones, R. R. See Sayers, R. R.
- Jones, S. R., plug-in thermocouple head, I, 238.
- Jones, S. W. See Fairhall, L. T.
- Jones, T. E., operability and factors that increase curability of carcinoma of rectum, III, 185.
- Jones, T. G. H., and Lahey, F. N., ultra-violet absorption spectra of tagetone and related ketones, I, 191.
- Jones, W. A. See Westheimer, F. H.
- Jones, W. R., and Jones, H. A., efficacy of product from oil of rose geranium for removal of intestinal parasites from dogs, III, 587.
- Jonsson, C. V., resonance structure of anthracene and phenanthrene, II, 224.
- Jonsson, G., Obel, A. L., and Sjoberg, K., scury as secondary symptom of avitaminosis-A, III, 187.
- Jonsson, H. See Dimroth, K.
- Jooste, E. See Cluver, E. H.
- Jordan, C. F., Borts, I. H., Harris, D. M., and Jennings, J. R., brucellosis: epidemiology, diagnosis, and control, III, 773.
- Jordan, D. O. See Gulland, J. M.
- Jordan, E. B., and Coggesshall, N. D., measurement of relative abundance with mass spectrometer, I, 43.
and Young, L. B., history of isotopes and measurement of their abundances, I, 73.
See also Coggesshall, N. D., and Hales, E. B.
- Jordan, H. E., and Robeson, J. M., production of lymphoid nodules in bone marrow of domestic pigeon following splenectomy, III, 86.
- Jorde, W. See Schopf, C.
- Jerdon, J. W., Campbell, P. C., and Osborne, E. D., ragweed dermatitis among workers in flour and grain industries, III, 443.
- Jorgenson, G. M., and Greeley, D. McL., subcutaneous administration of sodium sulphadiazine, III, 417.
- Jorpes, E. See Edman, P.
- Josefowitz, D. See Goldfinger, G.
- Josephs, H. W., vitamin-A and total lipin of serum in pneumonia, III, 822.
Holt, L. E., *jun.*, Tidwell, H. C., and Kajdi, C. N., influence of dietary fat on excretion of urobilin, III, 405.
- Josephson, E. S., and Harris, R. S., modified micro-fermentation method for determination of thiamin, III, 189.
See also Sizer, I. W.
- Joshi, K. G., and Panditram, D. B., albinism in sugar cane, III, 444.
- Joski, J. See Osgood, E. E.
- Joslin, E. P., Root, H. F., White, P., and Marble, A., diabetic coma, III, 414.
- Joslyn, D. A., Yaw, K., and Rawlins, A. L., germicidal efficacy of phemerol, III, 522.
See also Rawlins, A. L.
- Jost, W., and Rogener, H., reaction kinetics of "knocking" process. III. Effect of added substances on the spontaneous ignition of adiabatically compressed heptane-air mixtures, I, 230.
and Widmann, A., diffusion of hydrogen and deuterium in palladium. II., I, 198.
- Jouast, R., origin of E layer of ionosphere, I, 29.
- Joyce, C. R. See Tauber, O. E.
- Joyet, G., ionised air and experimental cancer production, III, 819.
- Joyet-Lavergne, P., effect of vitamin-C on respiration of living cells, III, 411.

- Joyner, A. L. See Libby, R. L.
- Jubb, A. A., chemotherapy and serotherapy in cerebrospinal fever, III, 508. Generalised vaccinia, III, 530.
- Jucker, E. See Karrer, P.
- Jucker, P., determination of blood-sugar in general practice, III, 866.
- Juday, C. See Field, J. B.
- Judd, D. B., Fresnel reflexion of diffusely incident light, I, 85. Colour-blindness, III, 804. Colour-blindness and detection of camouflage, III, 804.
- See also Newhall, S. M.
- Judd, J. R., Larsen, N. P., and Tilden, J. L., limitis plastica of colon, III, 246.
- Judina, N. D., effect of spleen extract on destruction and formation of red cells, III, 86.
- Jühling, L., Tropp, C., and Wohlisch, E., polarographic researches on proteins. II. Application to changes of state of fibrinogen, II, 314.
- See also Tropp, C.
- Jürgens, R. See Rothlin, E.
- Juijfs, J., life period of the meson, I, 113.
- Jukes, T. H., and Welch, A. D., effect of analogues of choline on perosis, III, 192.
- See also Almquist, H. J.
- Julesz, M., stimulation of gonadotropic anterior pituitary secretion, III, 240.
- Julian, O. C., and Brunschwig, A., reaction of experimental sarcomas to wound-healing stimulus, III, 403.
- See also Dragstedt, L. R.
- Julianelle, L. A., and Moore, E., pathological changes in *Listeria* infection, particularly of eye, III, 384.
- Jung, A., sport and fatigue, III, 594. Protein intake in wartime, III, 751.
- and Ritter, M., aneurin pyrophosphate as catalyst of acetylations, III, 665.
- A-Vitaminic syndrome in young rats, III, 901.
- Jung, F., degeneration phenomena in erythrocytes, III, 369. Compound of methæmoglobin with thiocyanate, III, 624.
- Jung, R. W. See Werch, S. C.
- Jungeblut, C. W., inactivation of diphtheria toxin by *L*-ascorbic acid, III, 282.
- Jungkunz, R. See Pritzker, J.
- Junowicz-Kocholaty, R. See Meyerhof, O.
- Jura, G. See Harkins, W. D.
- Jurovskaja, F. See Kulberg, L. M.
- Just, F. See Fink, H.
- Justi, E., and Kramer, J., galvanomagnetic investigation of electrical conductivity of barium, I, 252.
- Kramer, J., and Schulze, R., galvanomagnetic experiments on electrical conductivity of single crystals of cadmium, I, 252.
- See also Aschermann, G.
- Justoni, R., reaction products from α -chloroketones and potassium cyanide. III. Cyanoacetylacetone and method of preparing acetylacetone, II, 70.
- Jusupova, S. M., bentonite clays of Changhyr-Tash, I, 105. Rontgen-mineralogical study of the loess soils in vicinity of Tashkent, I, 108.
- K.**
- Kaan, H. W. See Hall, A. R.
- Kabat, E. A., Moore, D. H., and Landow, H., electrophoretic study of protein components in cerebrospinal fluid and relationship to the serum-proteins, III, 101.
- See also Landow, H., Moore, D. H., and Wolf, A.
- Kabat, H., and Levine, Milton, capillary emboli as a lethal factor in burns, III, 462.
- See also Racker, E.
- Kabler, P., Pierce, G. O., and Michaelsen, G. S., resistance of *Eberthella typhosa* to chloroamrine, I
- Kadowaki, H., formaldehyde-urea condensation products. IV. Methylolureas. V. The methylene linkage, II, 1.
- Kaelin, H., treatment of pneumococcal peritonitis with sulphathiazole, III, 672.
- Kämmerer, H. See Kern, W.
- Käser, O., recessive sex-coupled nystagmus in four generations, III, 640.
- Käsermann, H. See Mühlemann, H.
- Kaess, G., culture dishes for the cultivation and enumeration of anaerobic bacteria, III, 276.
- Kagan, B. M., clinical significance of serum-proteins, III, 456. Relationship between albumin-globulin ratio, albumin, globulin, and total protein, III, 456.
- Kagan, J. See Barach, A. L.
- Kagan, J. B. See Levina, R. J.
- Kahan, G. J. See Kolthoff, I. M.
- Kahler, H., and Robertson, W. v. B., pH of normal liver and hepatic tumours, III, 749.
- Kahler, J. E., Wallace, W. E., Irvine, R., and Irvine, A. R., leiomyoma of iris, III, 800.
- Kahlstrom, S. C. See Whitmore, O. S.
- Kahn, D., and Becker, S. W., bismuth compounds in syphilotherapy, III, 591.
- Kahn, J. R. See Goldblatt, H.
- Kahn, R. L., verification test in serology of syphilis, III, 850.
- Kahovec, L., and Wassmuth, H., Raman effect. CXXII. Association of formamide, I, 31. See also Bradacs, K.
- Kainrath, P., volumetric determination of iodides [in presence of chloride and bromide], I, 313.
- Kaischev, R., elementary association and dissociation processes on crystal surfaces and equilibrium conditions for finite crystals, I, 32.
- Kaiser, C. P., and Smith, H. T. U., high-index medium for rapid impregnation of friable materials, I, 186.
- Kajdi, C. N. See Albanese, A. A., and Josephs, H. W.
- Kajdi, L., and Davison, W. C., chemical and enzymic studies of the duodenal contents of infants, III, 892.
- Kakavas, J. C., Palmer, C. C., Hay, J. R., and Biddle, E. S., homogenised sulphanilamide-in-oil intramammary injections in bovine mastitis, III, 134.
- Kakemi, K. See Sugawara, S.
- Kalal, E. See Kraus, I.
- Kalb, S. W., effects of thyroid substances in patients with obesity, III, 557.
- Kalckar, H. M., role of myokinase in trans-phosphorylations. II. Enzymic action of myokinase on adenine nucleotides, III, 599.
- See also Colowick, S. P.
- Kalika, P. N. See Anand, B. M.
- Kaliko, M., measurement of rate of outflow of liquids, I, 240.
- Kalinkevitsch, A., effect of cations (K, Na, Ca) on transformation of sugars in plants, III, 292.
- Kalkstein, M. See Appelbaum, E., and Ensworth, H. K.
- Kallós, P., and Kallós-Deffner, L., experiments with Forssman antiserum in allergic bronchial asthma, III, 163.
- Kallós-Deffner, L. See Kallós, P.
- Kalmus, H., survival and change of weight on sugar-water mixtures of *Drosophila* mutants and species of different body colour, III, 367. Optomotor responses of eye mutants of *Drosophila*, III, 859.
- Kalter, S. S., quadruple staining method for tissues, III, 860.
- Kalz, F., and Steeves, L. C., hypersensitivity to sulphonamides, III, 510.
- Kamen, G. F., acrolein [acraldehyde] and shock; possible relationship of lipid breakdown products to shock associated with burns, III, 870.
- Kamen, M. D. See Nahinsky, P., and Ruben, S.
- Kaminskaja, S. E., titanium in principal zonal soils of European part of the U.S.S.R., I, 172.
- Kamm, O. See Ewing, D. T.
- Kamman, G. R., and Weisberg, M., polyneuritis with facial diplegia following serum sickness due to tetanus antitoxin injection in adult III, 468.
- Kammer, E. W., and Atanasoff, J. V., elastic constants of β -quartz, I, 55.
- Kammeraad, A., development of gastrointestinal tract of rat. II. Homotransplantation of embryonic and adult gastric and intestinal mucosa to anterior chamber of eye, III, 450.
- Kammerer, W. H. See Cecil, R. L.
- Kamperman, G., treatment of gynaecological cancer, III, 819.
- Kanaar, A. C. See De Waal, H. L.
- Kane, G. P., and Pandit, M. G., influence of nitrogen peroxide on low-temperature ignition of diethyl ether, I, 94.
- Kane, J. G., and Schuette, H. A., nomograph for emergent-stem correction of mercury-in-glass thermometers, I, 168.
- Kanekar, C. R. See Prasad, M.
- Kanevsky, J., constitutional aspects of peptic ulcer, III, 892.
- Kang, S. See Lin, K.
- Kanitz, H. R., and Sellschopp, U., hydrolysis of blood by acid and alkali in relation to study of alimentary ethyl acetate curve of blood; effect of hormones, glucose, and poisons; endogenous and exogenous alcohol of blood III, 716.
- Kanne, E. M. See McCarter, J. R.
- Kanne, W. R. See Wilkening, M. H.
- Kanning, E. W., Bobalek, E. G., and Byrne, J. B., conductivity of sulphuric acid in methyl alcohol at 25°, I, 258.
- Kantiengar, N. L. See Heilig, R.
- Kantor, L., significance of streaming in formation of connective tissue fibres, III, 657.
- Kantorovitsch, B. V., heterogeneous process in layer of solid particles used as a chemical reagent, I, 65.
- Kanvinde, C. K., Borkar, R. S., Kothare, A. N., and Nadkarny, V. V., mercuration of pyridine, II, 146.
- Kothare, A. N., and Nadkarny, V. V., 3-bromosalicylic acid, II, 146.
- Kao, C. L. See Oetjen, R. A.
- Kao, Y. S. See Chuang, C. K.
- Kapadia, M. R. See Rokade, R. K.
- Kapeller-Adler, R., and Adler, E., histidine and histamine metabolism in normal and pathological pregnancy, III, 650.
- and Cartwright, J. A., vitamin-B₁ and toxæmia of pregnancy, III, 576.
- Kaplan, A., Enteman, C., and Chaikoff, I. L., effects of insulin on blood-lipins of man, III, 715.
- Friedman, M., and Williams, E., site of renin formation in kidney; its formation in tubules of mesonephros and metanephros of hog foetus, III, 11.
- See also Friedman, M.
- Kaplan, A. M. See Burke, V.
- Kaplan, E., parathyroid gland in infancy, III, 389.
- See also Smith, C. A.
- Kaplan, H., and Lindwall, H. G., condensation reactions of cinchonin- and quinald-aldehyde, II, 277.
- Kaplan, H. M., Tetwin, I. J., and Davis, E. H., improved animal board, III, 780.
- Kaplan, I., and Williams, John W., spore formation among anaerobic bacteria. I. Formation by *Clostridium sporogenes* in nutrient agar media, III, 281.
- Kaplan, I. I., radium applicator in treatment of cancer of corpus uteri, III, 54. X-Ray treatment of amenorrhœa and sterility, III, 173.
- Kaplan, M. See Rubens, E.
- Kaplan, M. H., Tagnon, H. J., Davidson, C. S., and Taylor, F. H. L., nature and properties of proteolytic enzyme derived from plasma, III, 84.
- Kaplan, N. See Doudoroff, M.

- Kapp, E. M.**, and Coburn, A. F., urinary metabolites of sodium salicylate, III, 132.
See also Coburn, A. F.
- Kapp, M. E.** See Dobbins, J. T.
- Kappel, H.**, and Hüttig, G. F., active oxides and reactions of solids. CXXI. Kinetics of thermal dissociation of calcium carbonate; kinetics of lime burning, I, 280.
- Kappers, C. U. A.**, mammalian homologues of dorsal thalamic nuclei of reptiles, III, 466.
- Kapur, A. N.** See Yajnik, N. A.
- Kapustinski, A. F.**, heat of formation of manganese carbonate and entropy of manganese ion, I, 16. Heat of formation of stannous chloride and of displacement of tin by zinc, and entropy of tin ion, I, 129. Calculation of ionic radii from entropies, I, 145. Thermodynamics of hydration of electrolytes, I, 154.
- Kar, B. C.**, oxidation of resorcinol by hydrogen peroxide in presence of tungstic acid sol as catalyst, II, 217.
- Kar, H. M.**, case of nyctalopia, III, 804.
- Kar, K. C.**, proton-proton interaction and the Yukawa particle, I, 4.
- Kar, K. R.** See Bhattacharyya, S. K., and Ghosh, J. C.
- Karabaschew, N.**, wandering of electrons in alkali halide crystals, I, 29.
- Karabin, J. E.** See Anderson, E. R.
- Karajanopulo, K. A.**, electric furnace for intensive heating of crucibles, I, 317.
- Karaoglanov, Z.**, separation of calcium from magnesium by oxalate process, I, 163. Sensitivity of chemical reactions; sensitivity of reaction $Mg^+ + C_2O_4^-$, I, 163. Sensitivity of chemical reactions. IV. Reactions of organic compounds. V. Reactions of organic compounds. VI. Reactions giving rise to supersaturated solutions, I, 315; II, 347, 348. Volumetric thiocyanate process for determining mercury, I, 316.
- Kararinova-Oknina, V. A.**, and Nikitina, N. A., determination of ferrous iron in vivianites, I, 237.
- Karasik, M. A.**, complex paragenetic diagram of the Dashkesan [cobalt] deposit, I, 106.
- Karbe, K.**, and Jander, G., metaphosphates, I, 23.
- Karel, L.**, Grubb, T. C., and Chapman, C. W., treatment of group C streptococcus infection in guinea-pigs with vitamin-C and sulphamylamide, III, 340.
- Karelin, N. A.**, positive column of a helium discharge, I, 293.
- Kargin, V. A.**, and Leipunskaya, D. I., diffraction of rapid electrons in thin films of cellulose ethers and esters, I, 146.
- and Slonimski, G. L., peculiarities of physical properties of "high polymers," I, 148.
- See also Schischniashvili, M. E., and Tager, A.
- Kariher, D. H.**, and George, R. H., toxæmias of pregnancy and inulin-diodrast clearance tests, III, 816.
- and Spindler, H. A., erythroblastosis foetalis and blood factor Rh, III, 453.
- Karkalos, B.** See Schwab, G. M.
- Karlik, B.**, and Bernert, T., supposed β -radiation of radium-A; existence in nature of element 85, I, 141.
- Karlkstein, M.** See Solomon, S.
- Karlson, A. G.**, comparative values of media for isolation of bovine tubercle bacilli, III, 148.
- Karlson, P.** See Dornow, A.
- Karnosh, L. J.**, hemiplegia and cerebrovascular disease, III, 725.
- Karp, P.** See Goldfarb, A. E.
- Karpatschev, S.**, and Stromberg, A., electrocapillary phenomena for liquid metals, I, 89. Contact potential difference between mercury and thallium amalgam, I, 309.
- Karpov, V. L.**, electron diffraction of retene and β -methylanthracene crystals, I, 118.
- Karr, H. V.**, latent pneumotropic virus of mice, III, 777.
- Karrasch, R. J.** See Richardson, L. R.
- Karrer, P.**, phytoxanthins of dandelion blossoms; flavoxanthin, III, 295.
- and Appenzeller, R., action of enzymes on $\alpha\alpha'$ -iminodicarboxylic acids, II, 56. Action of liver-enzymes on amino-acids, III, 768. and Bretscher, E., purification of vitamin-A₂, II, 149.
- and Falzer, W., preparation of substances resembling tocopherol and flavonols from benzopyrylium salts, II, 101. Oxidation of benzopyrylium salts to flavonols, II, 101. Diphenospiran derivative with constitutional relationships to the tocopherols, II, 102.
- and Jucker, E., carotenoids from blossoms of chrysanthemum; chrysanthemaxanthin, III, 615.
- and Keller, R., nature of Waser's specific colour reaction for α -amino-acids, II, 153. Products of hydrolysis of highly active preparations of the antipernicious [anaemia] factor, III, 545.
- Keller, R.**, and Szonyi, G., products of action of azobenzene-*p*-carboxyl chloride on α -aminocarboxylic acids and their esters, II, 187.
- and Koenig, H., essential unsaturated fatty acids, II, 182.
- and Rutschmann, J., auroxanthin, a carotene pigment which absorbs light of short wave-length, II, 159.
- and Schick, E., introduction of allyl residues into aromatic compounds, II, 261.
- and Würgler, E., absorption spectra of carotenoids, III, 517.
- Karrer, W.**, hellebrin, a crystallised glycoside from *Helleborus niger* root, II, 356.
- Karschulin, M.**, and Ban, S., electrolytic determination of zinc at brass electrodes. I. Separation of zinc from a solution buffered with sodium acetate, I, 263.
- and Mirnik, M., electrolytic determination of zinc at brass electrodes. II. Separation of zinc from copper from a buffered solution, I, 263.
- Karstens, A. I.** See Youmans, W. B.
- Kartagener, M.**, chronic pulmonary inflammation with blood eosinophilia, III, 713.
- Kartha, A. R. S.**, and Menon, K. N., isolation and constitution of an acid from root bark of *Ixora coccinea* (Linn.), II, 151. Tentative method for determination of mono- and di-unsaturated glycerides, II, 316.
- Kartvelischvili, M. G.**, use of lupidaine in stomatological practice, III, 267.
- Karve, C. S.**, evaporation from water drops and wet spherical surfaces, I, 86.
- Kasai, Y.**, and Takai, S., photo-electric titrations with selenium cells, I, 26.
- Kaser, M.**, and Stekol, J. A., critical study of Carr-Price reaction for determination of β -carotene and vitamin-A in biological materials, III, 752.
- Kasparova, S. A.**, and Glazunov, I. V., carbohydrate complex in potatoes grown in Arctic regions, III, 853. Biochemical processes in resting potato tubers grown in the Arctic, III, 853.
- and Proskurnikova, T. A., effect of ammonia- and nitrate-nutrition on carbohydrate metabolism of red clover in the Arctic, III, 292.
- Kass, J. P.**, and Radlove, S. B., diastereoisomerism of $\theta\lambda$ -trihydroxystearic acids; geometric configurations of ricinoleic and ricinelaic acids, II, 54.
- Kasselberg, L. A.**, exfoliative dermatitis following stilboestrol, III, 478.
- Kassell, B.** See Brand, E.
- Kassner, E. W.** See Bruce, H. M.
- Kassube, B.**, and Schmellenmeier, H., electrolytically deposited metals; influence of the gas above the electrolyte on deposition potential, I, 258.
- Kast, C. C.** See Mudd, S.
- Kast, W.**, and Prietzschk, A., molecular structure of supercooled and of glassy ethyl alcohol, I, 221.
- Kastanov, L. I.** See Kobosev, V. I.
- Katchalski, E.** See Frankel, M.
- Katheder, F.**, fluorescence of monomethine-cyanine dyes, particularly reversibly polymeric monomethine-cyanines. II, I, 248.
- Kato, K.**, Sherman, M. S., and Cannon, P. R., fatal agranulocytosis following sulphathiazole therapy, III, 831.
- Katona, N.** See Bullowa, J. G. M., and Weichsel, M.
- Katsampes, C. P.** See Lichty, J. A., jun.
- Kattus, A. A., jun.** See Madden, S. C.
- Katz, B.**, impedance changes in frog's muscle associated with electrotonic and "end-plate" potentials, III, 12.
See also Eccles, J. C.
- Katz, D. L.** See Bicher, L. B., jun., Churchill, S. W., and Weintraub, C. F.
- Katz, J. D.** See Goldblatt, H.
- Katz, L.**, and Mulders, G. F. W., clustering of nebulae. II, I, 79.
See also Clark, A. L.
- Katz, L. N.**, heart failure, III, 549.
- Killian, S. T.**, Asher, R., and Perlov, S., prophylactic action of deoxycorticosterone in shock due to massive venous thrombosis, III, 238.
- See also Dauber, D. V., Elek, S. R., Friedberg, L., Megibow, R. S., Sokolow, M., and Uhley, M. H.
- Katz, M. L.**, excitation of ultra-violet phosphorescence in alkali halide phosphors activated with thallium, I, 115.
- Katz, S.**, [portable] gas generator, I, 187. Toxic manifestations of sulphapyridine, III, 195.
- Katzbogen, S.** See Androp, S.
- Katzin, B.** See Dorrance, S. S.
- Katzin, L. I.**, Sandholzer, L. A., and Strong, M. E., application of decimal reduction time principle to study of resistance of coliform bacteria to pasteurisation, III, 772.
- Katzman, P. A.**, Godfrid, M., Cain, C. K., and Doisy, E. A., preparation of chorionic gonadotropin by chromatographic adsorption, III, 740.
See also Roberts, E. C., and Van Bruggen, J. T.
- Katznelson, H.**, staining technique for evaluating toxicity of antibiotic substance of microbiological origin, III, 274.
- Kaucher, M.**, Button, V., and Williams, H. H., spectrophotometric determination of phosphorus and cholesterol, III, 76.
- Kauer, G. L., jun.**, Bird, R. M., and Reznikoff, P., clotting action of fer-de-lance venom, III, 546.
See also Bird, R. M.
- Kaufmann, H.**, Burton's rule for positive hydrosols. II. Coagulation measurements, I, 256.
- Kaufman, L. E.**, use of pyridine in determination of uranium and its separation from the alkaline-earth metals, I, 317.
- Kaufman, M. R.** See Waller, J. V.
- Kaufman, W.** See Nahum, L. H.
- Kaufmann, A. R.**, and Starr, C., magnetic properties of solid solutions. III. Paramagnetic alloys of copper and nickel, I, 255.
- Kaufmann, B. P.**, complex induced rearrangement of *Drosophila* chromosomes, III, 367.
- Kaufmann, H. P.**, Bückmann, H., and Huang, L. S., pharmacological studies. XVI. Antipyrryl ketones, II, 174.
- Huang, L. S.**, Hültenschmidt, G., and Schmitz, H., pharmacological studies. XV. 1-Phenyl-2:3-dimethylpyrazol-5-one-4-carboxylic acid (antipyric acid) and its derivatives, II, 174.
- Huang, L. S.**, King, B. W., and Kirsch, P., fats. III. Reaction of tetranitromethane with fatty acids and fats, II, 150.
- Kaufmann, M.** See Simon, M. A.
- Kaufmann, W.**, Goormaghtigh cells in normal and diseased human kidney and hypertension, III, 397.
- and Chamberlin, D. B., congenital atresia of pancreatic duct system as cause of meconium ileus, III, 893.

- Kauko, Y** and **Knappsberg, L.**, behaviour of quinhydrone electrode in plant liquids, I, 1.
- Kaulbersz, J.** See **Winfield, J. M.**
- Kausche, G. A.** See **Pfankuch, E.**
- Kaushal, R.**, molar refraction and structure of hydroxymethylene ketones, II, 252. Pyrone and related compounds. III. Action of bases on 2:6-dihydroxypyrone, II, 337.
- Bhisse, P. B.**, and **Deshapande, S. S.**, pyrones and related compounds. II. New reaction product of acetonidocarboxylic acid and acetic anhydride, II, 308.
- Kautz, S.** See **Staudinger, Hermann.**
- Kauzmann, W.**, dielectric relaxation as a chemical rate process, I, 81.
- Kavanagh, K. E.**, catalytic hydrogenation of cystine, II, 83. See also **Rampino, L. D.**
- Kawai, S.**, **Nakamura, T.**, and **Yoshida, M.**, egonol. X. Synthesis of 2-[1-phenylcoumarone derivatives, and their egonol reactions, II, 275.
- and **Sugimoto, K.**, egonol. XII. Egonol glucoside from fruits of "taiwan-egonoki," II, 295.
- Sugiyama, N.**, **Nakamura, T.**, and **Komatsu, K.** [with **Shinkai, M.**], egonol. XI. Active hydrogen atom of egonol, directly bound to carbon, II, 275.
- Kaweeshwar, S. N.** See **Deshapande, S. S.**
- Kawerau, E.** See **Fearon, W. R.**
- Kay, C. F.**, nephrotoxic nephritis in rabbits, III, 248.
- Kay, E. B.** See **Coller, F. A.**
- Kay, L. L.**, multivitamin prophylaxis and therapy in respiratory diseases of aged, III, 900.
- Kaye, J. A.** See **Mandelbaum, H.**
- Kaye, S.**, microchemical determination of yellow phosphorus, III, 296. Microanalytical method for lead in urine, III, 895.
- Kayland, S.** See **Prinzmetal, M.**
- Kayne, G. G.**, immunity to tuberculosis, III, 694.
- Kazal, L. A.**, metabolism of *Pseudomonas fluorescens* as interpreted by relationship between metabolic end products and electrical conductivity of culture medium, III, 775.
- Westfall, R. J.**, **Ciereszko, L. S.**, **Risley, E. A.**, and **Arnow, L. E.**, preparation and partial analysis of pancreatic protein material of unusual growth-promoting properties, III, 328. See also **Arnow, L. E.**
- Kázama, T.**, joint action of two factors in enzymic degradation of benzoyldiglycine, III, 682.
- Kazanski, B. A.**, and **Golmov, V. P.**, isobutyl-cyclobutane and dicyclobutylmethane, II, 58. See also **Golmov, V. P.**
- Kazmin, V. E.** See **Hoffman, M. M.**
- Kazumi, H.** See **Sugasawa, S.**
- Kazuno, T.** See **Kurauti, Y.**
- Keane, J.** See **Breaden, T. W.**, and **Murphy, D.**
- Kearns, W. M.**, testosterone pellet implantation in gelding, III, 121.
- Keays, J. L.**, apparatus for purification of hydrocarbons by recrystallisation, II, 286.
- Keeler, C. S.**, and **Rammelkamp, C. H.**, [treatment of] *Haemophilus influenzae* bacteraemia, III, 195. See also **Rammelkamp, C. H.**
- Keeler, R. M.** See **Claypool, L. L.**
- Keeler, C. A.** See **Gill, A. M.**, and **Scarff, R. W.**
- Keeley, J. L.**, and **Gibson, J. G.**, amount of plasma and whole blood in lungs of dogs, III, 91.
- Gibson, J. G.**, and **Pijoan, M.**, effect of thermal trauma on blood volume, serum-protein, and blood-electrolytes; [rôle of spleen], III, 85. See also **Dunphy, J. E.**
- Keen, J. A.**, closure of foramen ovale and postnatal changes of ventricles in human heart, III, 8.
- Keenan, A. G.**, and **Gordon, A. R.**, transference numbers of potassium bromide in aqueous solution at 25°, I, 203.
- Keenan, G. L.**, microchemical tests for alkaloids and synthetics, II, 212.
- and **Eisenberg, W. V.**, microscopical identification of ferrous sulphate in mixtures, I, 264.
- Keenan, P. C.** luminosities of *M*-type variables of small range, I, 77. Spectra of CH stars, I, 113.
- and **Greenstein, J. L.**, singly-ionised calcium emission in 56 Pegasi, I, 109.
- Keeton, R. W.** See **De Takats, G.**
- Keevil, A. R.** See **Keevil, N. B.**
- Keevil, N. B.**, radioactive aureoles around ore deposits, I, 241. Distribution of helium and radioactivity in rocks. V. Rocks and associated minerals from Quebec, Ontario, Manitoba, New Jersey, New England, New Brunswick, Newfoundland, Tanganyika, Finland, and Russia, I, 241.
- and **Grasham, W. E.**, theory of α -ray counting from solid sources, I, 173.
- Jolliffe, A. W.**, and **Larsen, E. S.**, distribution of helium and radioactivity in rocks. IV. Helium age investigations of diabase and granodiorites from Yellowknife, N.W. Territories, Canada, I, 105.
- Keevil, A. R.**, **Ingham, W. N.**, and **Crombie, G. P.**, causes of variations in radioactivity data [for rocks], I, 241.
- See also **Horwood, H. C.**
- Kehman, E. F.**, and **Porter, D. R.**, physiological activity of ascorbic acid in plant life, III, 292.
- Kehoe, R. A.** See **Bambach, K.**
- Keier, N. P.**, and **Neumann, M. B.**, conditions of self-ignition of gas mixtures. XVII. Effect of composition of mixture on induction period of cold flame of acetaldehyde, I, 19.
- Keil, F. C., jun.**, and **Root, W. S.**, effect of urethane of β -methylcholine chloride on parasympathectomised cat's eye, III, 17.
- Keil, H.**, contact dermatitis from resin-finished underwear, III, 697.
- Keil, W.**, fats from fatty acids with odd number of carbon atoms. III, II, 21; III, 131. See also **Appel, H.**
- Keilin, B.**, and **Cass, W. E.**, deamination of 8-nitro-5-aminoquinoline, II, 104.
- Keilin, D.**, and **Hartree, E. F.**, reactions of haemoglobin and its derivatives with phenylhydroxylamine and nitrosobenzene, III, 454.
- Keilin, J.**, effect of caffeine and other imidazole compounds on haematin and their derivatives, II, 310.
- Keimatsu, S.**, and **Ishiguro, T.**, constituents of hinokiol. VIII. Synthesis of matairesinol dimethyl ether from hinokinin, II, 19.
- Keith, N. M.**, significance of plasma and blood volume studies [in clinical medicine], III, 546.
- Burchell, H. B.**, and **Osterberg, A. E.**, effects of potassium salts in man, III, 421.
- King, H. E.**, and **Osterberg, A. E.**, serum concentration and renal clearance of potassium in severe renal insufficiency in man, III, 745.
- Keitzer, W. A.**, and **Campbell, John A.**, renal complications of sulphadiazine, III, 265.
- Kekcheev, K.**, sensitivity changes of sense organs, III, 16. Expediting visual adaptation to darkness, III, 554.
- Keleman, G.**, malformation involving external, middle, and internal ear with otosclerotic focus, III, 474.
- Kelikian, H.**, pathological physiology of joints, III, 541.
- Kelkar, K. V.**, and **Gupte, R. B.**, inter-trapean beds at Upparhatti [Belgaum District], I, 188.
- Keller, A. G.**, apparatus for preparation of parenteral solutions, III, 780.
- Keller, A. P.** See **Rosenbaum, F. F.**
- Keller, E. B., jun.**, biotin and skin sensitivity, III, 532.
- Keller, H.** See **Schneider, W.**
- Keller, H. H.**, absorption of ultrasonic waves in gases, I, 253.
- Keller, H. M.** See **Cooper, M. L.**
- Keller, R.** See **Karrer, P.**
- Kelley, C. J.**, and **McCusker, P. A.**, crystalline complexes of arsenic, antimony, and bismuth trichlorides with dioxan, I, 282.
- Kelley, E. G.** See **Wall, M. E.**
- Kelley, H.** See **Ebbs, J. H.**
- Kelley, J. J.** See **Jacobs, J. L.**
- Kelley, K. K.**, specific heat of pure iron at low temperatures, I, 120. Specific heats at low temperatures of magnesium ortho- and meta-silicate, I, 196.
- and **Moore, G. E.**, specific heats at low temperatures of manganese carbide and dioxide, I, 223. Specific heats at low temperatures of anhydrous chlorides of calcium, iron, magnesium, and manganese I, 253.
- See also **Moore, G. E.**
- Kellogg, J. F.** See **Sahler, S. L.**
- Kellogg, W. H.** See **Rumreich, A. S.**
- Kelly, E.**, and **Porter, T.**, effect of cooking on vitamin-B₁ content of beans grown in Michigan, III, 189.
- See also **Mueler, K. D.**
- Kelly, E. A.** See **Shimizu, K. F.**
- Kelly, J.**, availability of calcium of New Zealand vegetables, III, 821.
- Kelly, K. L.**, **Gibson, K. S.**, and **Nickerson, D.**, tristimulus specification of the Munsell "Book of Colour" from spectrophotometric measurements, III, 878.
- Kelly, M.** See **Day, R.**
- Kelly, M. W.**, acute perforated peptic ulcers, III, 245.
- Kelly, P. L.**, enzymic hydrolysis of diacetin by bovine mammary gland tissue, III, 519.
- Kelman, E. M.** See **Dam, H.**
- Kelsey, F. E.**, **Oldham, F. K.**, and **Geiling, E. M. K.**, distribution of quinine in tissues of fowl, III, 831.
- See also **Dearborn, E. H.**
- Kelso, R. E.**, and **Galbraith, T. W.**, detection of acid-fast bacilli in urine, III, 522.
- Kemmerer, A. R.** See **Treichler, R.**, and **Wegner, M. I.**
- Kemp, A. R.**, and **Peters, H.**, cryoscopic and viscosity studies of polyisobutylene; cryoscopic deviation of polyisobutylene solutions from Raoult's law, I, 58.
- Kemp, F. H.**, **Murray, M. M.**, and **Wilson, D. C.**, fluorine and spondylitis deformans, III, 253.
- See also **Findlay, L.**
- Kempf, A. H.**, and **Nungester, W. J.**, reversibility of "Quellung" reaction and relation between the reaction and bile solubility, III, 65.
- See also **Nungester, W. J.**
- Kempf, C. A.**, biochemistry of fluorine. I. Physiological responses to fluorine compounds in rats, III, 671.
- Kempf, C. F.**, and **Page, I. H.**, production of experimental hypertension and indirect determination of systolic arterial pressure in rats, III, 93.
- Kempf, G. I.** See **Page, I. H.**
- Kempf, J. E.**, **Wilson, M. G.**, **Pierce, M. E.**, and **Soule, M. H.**, effect of aluminum hydroxide sedimentation, sand filtration, and chlorination on virus of poliomyelitis, III, 288.
- See also **Pierce, M. E.**
- Kempner, W.**, and **Schlager, C.**, effect of carbon dioxide on growth rate of pneumococcus, III, 64.
- Kempter, H.**, quantitative determination of absorption of benzene and benzene derivatives in near infra-red, I, 217.
- Kempton, J. H.**, effect of nutrient cultures on reaction of maize seedlings to light, III, 293.
- Kenalty, B. J.** See **White, W. H.**
- Kendall, A. I.**, epidemiology of epidemic cerebrospinal meningitis; studies in bacterial metabolism, III, 68.
- Kendall, A. W.** See **Heggie, J. F.**

- Kendall, B. S. See Hartmann, A. F.
 Kendall, E. C. See Gannt, R., and Reinecke, R. M.
 Kendall, F. E. See Earle, D. P., jun.
 Kendig, E. L., jun., tetany in newborn infant, III, 384.
 Kendrick, D. B., intravenous and intra-arterial administration of fluids in traumatic shock produced experimentally, III, 230.
 Kenefick, J. See Jackson, R. L.
 Kennard, H. E., papillary cystadenocarcinoma of pancreas, III, 820.
 Kennard, M. A., cortical reorganisation of motor function; studies on series of monkeys of various ages from infancy to maturity, III, 728.
 and Fulton, J. F., age and reorganisation of central nervous system [in monkeys and chimpanzees], III, 466.
 and McCulloch, W. S., excitability of cerebral cortex in infant *Macaca mulatta*, III, 14. Motor response to stimulation of cerebral cortex in absence of areas 4 and 6 (*Macaca mulatta*), III, 796.
 and Nims, L. F., effects on electroencephalogram of lesions of cerebral cortex and basal ganglia in *Macaca mulatta*, III, 796. Changes in normal electroencephalogram of *Macaca mulatta* with growth, III, 797. See also Ward, A. A.
 Kennaway, E. L. See Badger, G. M.
 Kennaway, N. M. See Badger, G. M.
 Kennedy, C. R. See Brownlee, G.
 Kennedy, F., interrelationship of mind and body, III, 468.
 Kennedy, H. F. See King, E. Q.
 Kennedy, J. A., and Clarke, S. L., physiological reactions of ductus arteriosus, III, 9.
 Kennedy, J. C. See Richardson, H. L.
 Kennedy, J. M., sulphapyridine and Ehrlich's diazo-reaction, III, 507. and Craver, L. F., treatment of lymphosarcoma with radioactive phosphorus, III, 571.
 Kennedy, R. J., special lenses for poor-sighted, III, 165.
 Kenner, G. W., Lythgoe, B., Todd, A. R., and Topham, A., reactions of amidines with derivatives of malonic acid, II, 340.
 Kennerstein, M. See Press, E.
 Kenney, E. L., Pembroke, R. H., Chatard, F. E., and Ziegler, J. M., sulphathiazole ointment in cutaneous infections, III, 135.
 Kenny, F. E. See Hubbard, R. S.
 Kent, A., Joseph Black (1728–1799), I, 73. Joseph Priestley (1733–1804), I, 104.
 Kent, B. S., necrotic gingivitis [treatment; relation to vitamin-C deficiency], III, 908.
 Kenworthy, A. L. See Pickett, W. F.
 Kenyon, A. T., Fricker, L., Knowlton, K., and Sandiford, I., metabolic effects of testosterone propionate in Addison's disease, III, 646.
 Johnston, C. D., Knowlton, K., Koch, F. C., Lotwin, G., and Munson, P. L., comparative metabolic effects of testosterone propionate and chorionic gonadotropin, III, 394.
 Knowlton, K., Lotwin, G., and Sandiford, I., metabolic response of aged men to testosterone propionate, III, 394. See also Knowlton, K., and Varney, R. T.
 Kenyon, J. See Balfe, M. P.
 Keohen, G. F. See Greene, J. A.
 Kepl, M., Caldwell, G., and Ochsner, A., use of adrenal cortical hormone in *Cl. welchii* infections in guinea-pigs, III, 736.
 Kerby, G. P., nicotinic acid and thiamin hydrochloride as growth-promoting factors for *Brucella*, III, 210. See also Dubin, I. N.
 Keresztesy, J. C. See Emerson, Gladys A.
 Kermack, W. O., and Weatherhead, A. P., anilinopyridine derivatives, II, 45.
 Kern, W., and Fernow, H., polymerisation of acrylonitrile and polyacrylonitrile, II, 3. Polymerisation of methacrylonitrile and polymethylacrylonitrile, II, 3.
 and Kämmerer, H., chemical mol. wt. determination of polystyrenes. I, II, 125.
 Kernwein, G. See Harmon, P. H.
 Kerr, A. L., sulphapyridine anuria, III, 907.
 Kerr, F. J., refractive indices of gases at high radio frequencies, I, 119.
 Kerr, H. D., irradiation treatment of cavernous haemangioma, III, 516.
 Kerr, P. F., and Erichsen, A. I., origin of quartz deposit at Fazenda Pacu, Brazil, I, 169.
 Kerr, R. W., significance of degradation of starch by *macerans* amylase, II, 157. Action of *macerans* enzyme on a component of maize starch, III, 427. and Severson, G. M., multiple amylose concept on starch. III. Isolation of an amylose in crystalline form, II, 156.
 Kerr, S. E., determination of adenosine triphosphate and its decomposition products in fresh and autolysed dog brain, III, 98.
 Kerr, T., pituitary of perch, III, 26. Comparative study of teleost pituitaries, III, 26.
 Kerr, W. J., faulty movement of diaphragm as cause of emphysema and "angina pectoris," III, 96.
 Kerst, D. W., 20-million electron-volt betatron or induction accelerator, I, 26.
 Kerstein, N. A. See Piper, J. D.
 Kersten, H. J. See Krebs, R. P.
 Kertesz, D. J. See Northey, E. H.
 Kertesz, Z. I., invertase activity in identical mixtures in liquid and frozen states, III, 273.
 Kesans, A. See under Keschan, A.
 Keschan, A., separation of phosphoric acid as bismuth phosphate in quantitative analysis. I, I, 314.
 Kesler, T. L., genetic history of pegmatites and associated rocks of Carolina tin belt, I, 292.
 Kessler, D. See Gelperin, A.
 Kessler, H. B. See Goldman, L. M.
 Kessler, M., and Gellhorn, E., effect of anoxia on brain potentials of hyperthyroid animals, III, 873. See also Arnett, V., and Gellhorn, E.
 Kesten, B. See Gross, P.
 Keston, A. S., Ball, R. P., Franz, V. K., and Palmer, W. W., storage of radioactive iodine in metastasis from thyroid carcinoma, III, 40. See also Reiner, L.
 Kettel, F. See Fucks, W.
 Ketyl, S. S., and Letonoff, T. V., treatment of lead poisoning by sodium citrate, III, 514.
 Key, C. See Davies, W. C.
 Key, J. A., internal fixation of trochanteric fractures of femur, III, 297.
 Keyes, C. G., bud formation, abscission, and flower production of *Gardenia* as affected by light and temperature, III, 778.
 Keyes, D. B. See Langdon, W. M.
 Keys, A., and Henschel, A. F., vitamin supplementation of U.S. army rations in relation to fatigue and ability to do muscular work, III, 187. See also Mickelsen, O., Samuels, L. T., and Taylor, H. L.
 Keys, T. E. See Wilder, R. M.
 Khabaria, R. H. See Rokade, R. K.
 Khambata, S. J., and Sahiar, A. B., optical method of measuring angle of contact, I, 220.
 Khanolkar, V. R., cancer research in India, III, 333.
 and Chitre, R. G., esterase (butyric) activity. I. Esterase content of serum of mice from cancer-resistant and cancer-susceptible strains, III, 182. See also Chitre, R. G.
 Kharasch, M. S., Archer, S., and Nudenberg, W., course and mechanism of Grignard reagents, VIII. Effect of metallic halides on reaction of Grignard reagents with aromatic acyl halides, II, 284.
 Eberly, K., and Kleiman, M., carboxylation. IV. Direct introduction of chloroformyl (-COCl) group into alicyclic and aliphatic acid chlorides, II, 134.
 Kharasch, M. S., and Fuchs, C. F., course and mechanism of Grignard reagents. XI. Effect of metallic halides on reaction of Grignard reagents with vinyl halides and substituted vinyl halides, II, 284.
 and Gladstone, M. T., reactions of atoms and free radicals in solution. IV. Decomposition of acetyl peroxide in aliphatic acids; synthesis of succinic acid and its substitution derivatives, II, 150. and Kleiman, M., synthesis of polyenes. III. Synthesis of diethylstilboestrol, II, 159. Course and mechanism of Grignard reactions. VI. Synthesis of hexestrol dimethyl ether (γ -dianisylhexane), II, 227.
 Lewis, D. W., and Reynolds, W. B., course and mechanism of Grignard reagents. VII. Analysis of gases formed during reaction of magnesium phenyl bromide with organic halides in presence of cobaltous halides. IX. Effect of metallic halides on reaction of organolithium compounds with organic halides, II, 284.
 and Nudenberg, W., condensation of epichlorohydrin with ethylene glycol; new polyfunctional derivatives, II, 213.
 and Reynolds, W. B., course and mechanism of Grignard reagents. X. Oxidation of Grignard reagents: effect of metallic catalysts, II, 284.
 and Sayles, D. C., course and mechanism of Grignard reactions. V. Effect of metallic halides on reaction of Grignard reagents with phenyl styryl ketone and benzophenone, II, 134.
 Khastgir, S. R., volume rectification of crystals, I, 273.
 Kibbler, H. H., Bergman, A. J., and Turner, C. W., pituitary weight in growing New Zealand white rabbits in relation to live weight, III, 24.
 and Brody, S., metabolism and growth rate of rats, III, 413. See also Brody, S.
 Kibrick, E. A., Simpson, M. E., Becks, H., and Evans, H. M., effects of crystalline oestrin implants on tibiae of young hypophysectomised female rats, III, 31. See also Evans, H. M.
 Kickham, C. J. E. See Jaffe, H. L.
 Kidd, H. A., use of HII in carcinoma, III, 898.
 Kidd, J. G., and Friedewald, W. F., natural antibody reacting with sedimentable constituents of normal tissues, III, 531, 570. See also Friedewald, W. F., and Parsons, R. J.
 Kidney, W. C., intravenous infusions in infancy, III, 868.
 Kiefer, G. See Garrett, A. B.
 Kiehl, S. J. See Rohrer, C. S.
 Kiely, W. F., Hamilton, S. L., and Gellhorn, E., haemorrhage and skeletal muscle tone, III, 787.
 Kienle, R. H., and Sayward, J. M., solubilities of orthanilamide, metanilamide, and sulphanilamide, I, 59.
 Kies, M. W., and Schwimmer, S., proteinase in brain, III, 164. See also Balls, A. K., and Daniel, E. P.
 Kiese, M., verdoglobin as degradation product of haemoglobin in organism, III, 302.
 Kiessig, H., X-ray investigation of large lattice plane distances and investigation of flowing solutions, I, 26.
 Kiesling, R. See Hagg, G.
 Kikuchi, S., Watase, Y., and Itoh, J., angular relation between two γ -quanta radiated cascade-wise from an atomic nucleus, I, 47.
 Kikuth, W., malaria prophylaxis, III, 137.
 Kilgore, H. H., and Rhoads, P. S., chronic lead arsenate poisoning with recovery, III, 678.
 Kille, F. R., regeneration after fission in sea cucumbers, III, 619.
 Killian, S. T. See Katz, L. N.
 Killick, E. M., and Schilling, R. S. F., effects of continued exposure to vapour of volatile solvents, III, 914.

- Killingsworth, W. P., and Engledow, R., congenital absence of the three extremities, III, 78.
- Küller, G. W., Armstrong, M. D., Brown, George Bosworth, and Du Vigneaud, V., synthesis of a 3:4-diaminotetrahydrothiophen and a comparison of its stability with diaminocarboxylic acid derived from biotin, II, 44.
See also Hofmann, K., and Whitmore, F. C.
- Kilner, S. D. See Bird, H. M.
- Kilpatrick, M., and Eanes, R. D., relative strengths of formic, acetic, and propionic acids in alcohols and dioxan-water mixture, I, 15. Effect of substituents on acid strength of benzoic acid. VI. Cyano-group, I, 201.
- Kimball, R. F., mating types in ciliate protozoa, III, 620.
- Kimball, S. See Wendel, W. B.
- Kimbrough, C. E. See Burdon, K. L.
- Kimmel, D. L., nigrohypothalamic fibres in cat, III, 724.
- Kimura, K. See Nishina, Y.
- Kinal, M. E. See Osgood, H.
- Kind, C. A., and Bergmann, W., marine products. XI. Occurrence of octadecyl alcohol, batyl alcohol, and cetyl palmitate in gorgonias, III, 181.
- Kindler, E., emission electron microscopy with magnetic lenses, I, 166.
- Kindler, K., synthesis of pharmacologically important carboxylic acids, III. Control of hydrogenation of *O*-acetylmandelic acid esters, II, 326.
and Li, T., synthesis of pharmacologically important carboxylic acids. IV. Synthesis of substituted β -phenylpropionic acids from aryl ethyl ketones, II, 326.
- Kindlmann, L. See Müller, Adolf.
- Kindred, J. E., quantitative study of haemopoietic organs of young adult albino rats, III, 81.
- King, A., ring method for measuring elastic moduli, I, 266.
- King, A. J. See Davis, W. E.
- King, B. C., the Cnoc nan Cuilean area of the Ben Loyal igneous complex, I, 268.
- King, B. W. See Kaufmann, H. P.
- King, C. B. See Sherrill, M. S.
- King, C. G. See Liddell, R. W.
- King, C. G. (Pittsburgh). See Silverblatt, (Miss) E.
- King, D. See Richards, V.
- King, E. J., silicosis, III, 270.
See also Belt, T., Bray, J., and Clegg, J. W.
- King, E. Q., McCaleb, L. B., Kennedy, H. F., and Klumpp, T. G., glycine and work capacity in man, III, 53.
- King, E. S. J., formation of "ganglia" and cysts of menisci of knee, III, 221.
- King, F. E., and King, T. J., synthesis of phthalides from 3:4:5-trimethoxybenzoic acid, II, 34.
- King, G., oxidation of oleic and elaidio acids and their methyl esters by hydrogen peroxide in acetic acid; configurations of θ -dihydroxy-stearic acids, II, 80.
- King, G. W., Hainer, R. M., and Cross, P. C., asymmetric rotor. I. Calculation and symmetry classification of energy levels, I, 113.
- King, H., and Strangeways, W. I., relation between chemical structure and drug-resistance among arsenicals, III, 51.
See also Andrewes, C. H.
- King, H. E. See Keith, N. M.
- King, J. See Dermer, O. C.
- King, J. A. See Smith, L. I.
- King, J. C., Roentgen therapy of pituitary in functional menstrual disorders, III, 560.
- King, J. D., nutritional and other factors in "trench mouth" with reference to nicotinic acid component of vitamin-B₂ complex, III, 500.
- King, James D., and Hamilton, F. E., iodine content of normal human thyroid gland and its correlated histology, III, 806.
- King, J. T., infections in background of patients with coronary occlusion, III, 90. Anticipation and diagnosis of neuro-circulatory asthenia, III, 92.
- King, J. W., Garey, J. C., and Farrell, M. A., metabolic studies of a non-haemolytic streptococcus, III, 213.
- King, L. C., and Ball, C. D., sterols of alfalfa [lucerne] seed oil. II. Isolation of β - and δ -spinasterol, II, 67.
- Ball, C. D., Meyer, E. W., Riegel, B., Schweitzer, C. E., and Smith, P. G., isolation of β -amyrin from the leaves and seeds of lucerne, III, 702.
- King, L. S., eastern equine encephalomyelitis; facilitation of infection in mice, III, 529. Pathology of senile brains; silver-reducing structures in hippocampus, III, 726.
- King, R. L., and Beams, H. W., ultracentrifugation and cytology of *Spirillum volutans*, III, 285.
- King, R. O., and Davidson, R. R., liquid flow at small constant rates, I, 267.
- King, T. J. See King, F. E.
- Kingdon, C. L., Bunnell, I. L., and Griffith, F. R., *jun.*, fasting respiratory metabolism of white rat following controlled feeding, III, 259.
- Kinghorn, H. M., and Dworski, M., vaccination against tuberculosis, III, 148.
- Kingsley, B. F., laryngeal tonsils of mammals, with reference to their structure and development in cat, III, 541.
- Kingsley, G. V. See Ewing, D. T.
- Kinman, C. F., extent of coloured area on Alberta peaches in relation to leaf area per fruit and to fruit size, III, 533.
- Kinney, C. E., interpretation of hearing tests, III, 555.
- Kinney, C. R., and Kolbezen, M. J., organo-boron-nitrogen compounds. II. Reaction of boron chloride with *p*-toluidine, II, 7.
and Sugihara, J., constituents of *Artemisia tridentata* (American sage brush). II., III, 928.
- Kinney, T. D., intranuclear inclusions in infancy, III, 610.
- Kinsbury, B. F., interpretation of development of hypophysis (pituitary body), III, 477.
- Kinsey, R. E. See Wright, D. O.
- Kinsey, V. E., and Cogan, D. G., cornea. III. Hydration properties of excised corneal pieces. IV. Hydration properties of whole cornea. V. Physiologic aspects, III, 17, 102.
- Cogan, D. G., Curtis, B. R., Grant, W. M., and Livingood, J. J., sodium, chloride, and phosphorus movements and the eye, determined by radioactive isotopes, III, 103.
and Grant, W. M., aqueous humour formation inferred from chemical studies on blood-aqueous humour dynamics, III, 166.
Blood-aqueous humour dynamics, III, 166.
- Kinsley, D. L. See Lofgren, F. V.
- Kinsman, G. M. See Liff, A., and Lewis, R. C.
- Kip, A. F. See Hunter, F. T., and Lowry, O. H.
- Kiplinger, C. C., elementary spark spectrum analysis, I, 283.
- Kipp, F., periodic system of the elements, I, 141.
- Kirby, W. M. M., development of sulphathiazole-resistant gonococci *in vitro*, III, 848.
and Rantz, L. A., agglutinin response of normal persons to skin tests with brucellosis and brucella vaccine, III, 62. Succinylsulphathiazole in typhoid and dysentery carriers, III, 264. Quantitative studies of sulphonamide resistance, III, 507. Streptococcal bacteraemia cured with sulphadiazine, III, 760.
See also Rantz, L. A.
- Kirby-Smith, J. S. See Blum, H. F., and Grady, H. G.
- Kirch, E. R., and Bergeim, O., determination of *p*-aminobenzoic acid, III, 704.
See also Martinek, R. G.
- Kirchsteiner, H. See Goldberg, M. W.
- Kirchhoff, W., measurement of relaxation time of fluorescence, I, 218.
- Kirchner, J. G. See Haagen-Smit, A. J.
- Kireev, V. A., theory of azeotropic mixtures I, 179.
and Sitnikov, I. P., pressure and composition of vapour and heat of vaporisation of methanol-chloroform mixtures, and change of free energy and entropy associated with their formation, I, 182.
- Kirk, M. M., and Tressler, D. K., ascorbic acid content of pigmented fruits, vegetables and their juices, III, 256.
- Kirk, P. L. See Cunningham, B., and Sandkuhle, J.
- Kirk, R., and Sati, M. H., use of aromatic diamidines in treatment of kala-azar, III, 419. Cases of Sudan kala-azar treated with 4:4'-diamidinostilbene, III, 419. Cases of Sudan kala-azar treated with aromatic diamidines, III, 908.
- Kirklin, B. R., and MacCarty, W. C., incidence of malignancy in prepyloric ulcers, III, 572.
See also Eusterman, G. B.
- Kirkpatrick, H. E. W., photo-electric determination of ascorbic acid, III, 335.
- Kirkpatrick, J. See Dunn, J. S.
- Kirkpatrick, P. See Harworth, K.
- Kirkwood, J. G. See Oster, G.
- Kirsch, H. W. See Tager, B. N.
- Kirsch, P. See Kaufmann, H. P.
- Kirschbaum, A., and Strong, L. C., milk influence and leukæmia in mice, III, 373. Influence of carcinogens on age incidence of leukæmia in high-leukæmia F strain of mice, III, 568.
See also Pfeiffer, C. A.
- Kirschenbaum, I., differences in vapour pressures and entropies of liquid nitrogen I, 86.
- and Urey, H. C., differences in vapour pressures, heats of vaporisation, and triple points of nitrogen (14) and nitrogen (15) and of ammonia and trideuteriammonia I, 86.
- Kirshbaum, J. D., and Jacobs, M. B., dysgerminoma of testicle, III, 493.
and Preuss, F. S., leukæmia, III, 714.
and Shure, N., alcoholic cirrhosis of liver, III, 655.
- See also Mortimer, B.
- Kirsner, J. B., serum-electrolytes in dogs before and during acute alkalosis induced by sodium bicarbonate, III, 8. Effect of calcium carbonate, aluminium phosphate, and aluminium hydroxide on mineral excretion in man, III, 345.
- Humphreys, E., and Palmer, W. L., morphological changes in human kidney following prolonged administration of alkali, III, 894.
- Knowlton, K., and Palmer, W. L., experimental and clinical hypochloræmia in man, III, 303.
and Palmer, W. L., value of sodium chloride in prevention of alkalosis during "Sippy" treatment with calcium carbonate, III, 892. Effect of massive quantities of sodium bicarbonate on acid-base equilibrium and on renal function, III, 912.
- See also Front, J. S., Palmer, W. L., and Rodaniche, E. C.
- Kiser, J. S., rate of destruction of an *Achromobacter* species by freezing, III, 918.
- Kisliakova, E. N., and Medvedev, M. F., preparation of manganese filters for absorption of $K\beta$ radiation of X-ray tubes with an iron anode, I, 238.
- Kispéczy, S. von. See Euler, H. von.
- Kissin, M. See Brown, G.
- Kistiakowsky, G. B., and Tichenor, R. L., use of deuterium as a tracer in Claisen rearrangement, II, 60.
See also Andersen, H. C.
- Kiszely, G., origin of blood platelets, III, 712.
- Kitchen, L. J., and Pollard, C. B., monoalkylation of ethylenediamine with alkylene oxides, II, 354.

- Kitchin, I. D.**, and **Richmond, D. A.**, multiple muscle hernia, III, 541.
- Kitselman, C. H.**, and **Grundmann, A. W.**, equine encephalomyelitis virus isolated from naturally infected *Triatoma sanguisuga* (*Le Conte*), III, 287.
- Kittel, F.** See **Spath, E.**
- Kitto, P. H.**, and **Patterson, H. S.**, rate of solution of particles of quartz and silicates, I, 20.
- Kitzmiller, K. V.** See **Deichmann, W.**, and **Machle, W.**
- Kjerrumgaard, E.**, on tonometry, III, 800.
- Klaassens, K. H.** See **Houwink, R.**
- Klau, H.** See **Plattner, P. A.**
- Klaten, E.**, treatment of essential pruritus and kraurosis vulvae, III, 648.
- Klages, F.**, anomalous osmotic effects in chain molecules, III, I, 255. H. Wieland's work on nitrogenous substances, II, 7.
- Klarmann, H.**, centrifugation of electrons, I, 189.
- Klassen, K. P.**, and **Curtis, G. M.**, massive doses of vitamin-D and calcium and phosphorus metabolism, III, 503.
- See also **Poppel, I. D.**
- Kleczkowski, A.**, effect of salts on formation of protein complexes during heat-denaturation, II, 179.
- Kleiberg, G. S.** See **Kudra, O. K.**
- Kleiger, B.**, and **Blair, J. E.**, correlation between clinical and experimental findings in cases showing invasion of blood stream by staphylococci, III, 692. Role of toxin and use of antitoxin in systemic staphylococcal infections, III, 692.
- Blair, J. E.**, and **Hallman, F. A.**, behaviour of rabbits after infection with toxigenic and non-toxigenic staphylococci, III, 65.
- Kleiger, S. C.** See **Knott, E. M.**
- Kleiman, M.** See **Kharasch, M. S.**
- Klein, A.** See **Borsche, W.**
- Klein, C.**, **Saland, G.**, and **Zurrow, H.**, pancreatic tissue extract (insulin-free) in treatment of peripheral vascular disease, III, 632.
- See also **Burstein, J.**, and **Zurrow, H.**
- Klein, F.**, pseudopregnancy involution and regeneration of thymus, III, 888.
- Klein, J. R.**, **Perlweig, W. A.**, and **Handler, D.**, determination of nicotinic acid in blood cells and plasma, III, 76.
- See also **Sarett, H. P.**
- Klein, M.**, vi antigen in detection of typhoid carriers, III, 526.
- See also **Miller, B. F.**
- Klein, O.**, and **Runnstrom**, kinetics of respiration; inhibition by carbon monoxide, III, 464.
- Klein, V. A.** See **Griswold, J.**
- Klein, W.** See **Lapin, J. H.**
- Kleinberg, W.** See **Swingle, W. W.**
- Kleinzeller, A.**, adenosine- and inosine-nucleotides in phosphorus metabolism of muscle, III, 13.
- Kleitsch, W. P.**, and **Puestow, C. B.**, effect of intravenous solutions and of insulin on intestinal peristalsis, III, 328.
- Klema, E. D.**, and **Barschall, H. H.**, saturation characteristics for α -particles in purified gases, I, 111.
- Klement, R.**, and **Weber, R.**, behaviour of hydroxyapatite in solutions, I, 308.
- Klements, J.** See **Fox, T. T.**
- Klemm, W.**, magnetochemical investigations. XLV. Ionic diamagnetism; addendum to I and II, I, 119.
- and **Grimm, L.**, dihalides of titanium and vanadium, I, 83. Magnetochemical investigations. XLI. Magnetic behaviour of dihalides of titanium and vanadium, I, 85. Lower vanadium oxides, I, 96.
- and **Raddatz, K. H.**, magnetochemical investigations. XLII. Magnetic behaviour of nickel complexes with nitrilotriacetic acid and with ethylenediaminetetra-acetic acid. XLIV. Magnetic behaviour of inner complexes of imines of salicylaldehyde, I, 119.
- Klemperer, P.** See **Horn, H.**
- Klemperer, W. W.** See **Fox, I. L.**
- Klempner, E.** See **Frank, R. T.**
- Klendshoj, N. C.**, and **Koepf, G. F.**, serum-phosphatase activity in hyperparathyroidism, III, 882.
- and **McNeil, C.**, transfusion reaction with group O blood, III, 83.
- McNeil, C.**, **Swanson, P.**, and **Witebsky, E.**, transfusion of conditioned universal blood, III, 5.
- See also **Witebsky, E.**
- Klenk, E.**, chemistry of lipoidoses, III. Niemann-Pick disease and amaurotic idiocy, III, 670.
- Klepser, R. G.** See **Nungester, W. J.**
- Kligler, I. J.**, and **Bernkopf, H.**, path of dissemination of rabies virus in body of normal and immunised mice, III, 530.
- Czazkes, I.**, and **Oleinik, E.**, isolation of dysentery bacilli from stools by formaldehyde inactivation of bacteriophage, III, 689.
- and **Grossowicz, N.**, function of nicotinic acid in bacterial metabolism, III, 286.
- and **Yoeli, M.**, diagnostic and epidemiologic significance of complement-fixation test in human malaria, III, 601.
- See also **Farkas, H.**
- Klinck, G. H.** See **McClintock, J. C.**
- Kline, B. E.**, effect of *p*-dimethylaminoazobenzene on formation of blood-proteins, III, 818.
- Wasley, W. L.**, and **Rusch, H. P.**, tumour inhibitor studies. I. Effect of pure chemical compounds on tumour takes, III, 331.
- Kline, E. R.**, salicylamide; ammonolysis of methyl salicylate, II, 90.
- Kline, L. L.** See **Stofer, B. E.**
- Kline, O. L.** See **Daniel, E. P.**
- Kline, R. F.** See **Britton, S. W.**
- Klinefelter, H. F., jun.**, **Reifenstein, E. C., jun.**, and **Albright, F.**, syndrome characterised by gynecomastia, aspermatogenesis with a-Leydigism, and increased excretion of follicle-stimulating hormone, III, 243.
- Klingel, H.** See **Lawrence, C. A.**
- Klinger, L. H.**, and **Blauner, S. A.**, amaurotic familial idiocy in identical twins, III, 20.
- Klinghofer, K. A.** See **Tager, M.**
- Klinkenberg, P. F. A.** See **De Bruin, T. L.**
- Klise, K. S.** See **Burke, V.**
- Klokman, V. R.** See **Lipin, S. V.**
- Klopp, C. T.**, **Abels, J. C.**, and **Rhoads, C. P.**, relationship between riboflavin intake and thiamin excretion in man, III, 901.
- Klose, F.**, and **Schroer, W.**, drug and serum treatment of gas gangrene infection in experimental animals, III, 146. Globucid and serum treatment of experimental gas gangrene, III, 355.
- Klotz, B.** See **Goldstein, A. E.**
- Klotz, I. M.**, ultra-violet photometer for analysis of solutions, I, 238.
- Klotz, S.** See **McGavack, T. H.**
- Kluender, A. F.** See **McDonald, H. J.**
- Klüver, C.** See **Taliaferro, W. H.**
- Klüver, H.** See **Steiner, P. E.**
- Kluge, W.**, and **Steyksal, H.**, electronics of natural cleavage surfaces of metallic single crystals. I. Formation of cleavage surfaces of single crystals of zinc in a high vacuum and preliminary photo-electric measurements, I, 214.
- Klumpner, K.** See **Uhl, K.**
- Klumpp, T. G.**, and **Weilerstein, R. W.**, toxic manifestations and safety of sulphapyridine treatment, III, 136.
- See also **King, E. Q.**
- Kmiecik, T. C.** See **Friedemann, T. E.**
- Knapp, A. A.**, vitamin-D in vernal catarrh, III, 503.
- Knapp, M. E.** See **Cole, W. H.**
- Knapp, W. J.**, thermal conductivity of non-metallic single crystals, I, 179, 301.
- Knappsberg, L.** See **Kauko, Y.**
- Knaysi, G.**, photomicrographic study of rate of growth of yeasts and bacteria, III, 202.
- Use of basic dyes for demonstration of hydrolysis of fat [by bacteria], III, 601.
- and **Mudd, S.**, internal structure of bacteria as revealed by electron microscope: study of bacterial nucleus, III, 687.
- Kneen, E.**, and **Sandstedt, R. M.**, amylase inhibitor from cereals, III, 683.
- Sandstedt, R. M.**, and **Hollenbeck, C. M.**, differential stability of malt amylases: separation of α - and β -components, III, 843.
- Kniazuk, M.**, and **Unna, K.**, device for continuous recording of heart rate; its application to study of circulatory effects of epinephrine and carbamylcholine, III, 457.
- Knight, C. A.**, physical and chemical properties of a distinctive strain of tobacco mosaic virus, III, 69. Basic amino-acids in strains of tobacco virus, III, 441. Sulphur distribution in rib-grass strain of tobacco mosaic virus, III, 610.
- Knipe, G. F. G.**, corrector bar mechanism applied to a densitometer, I, 167.
- and **Reid, J. B.**, photo-electric tricolorimeter, I, 138.
- Knobloch, H.** See **Bernhauer, K.**
- Knodel, H.**, osmotic value of plant saps, III, 73.
- Knott, C. B.**, and **Petersen, W. E.**, effect of continuous injection of pitocin on milk and milk-fat production, III, 561.
- Knoefel, P. K.**, and **Lehmann, G.**, anticonvulsant action of diphenylhydantoin and related compounds, III, 420.
- See also **Lehmann, G.**
- Knoevenagel, C.** See **Freudenberg, K.**, and **Ziegler, K.**
- Knoll, M.**, behaviour of phosphors when irradiated intermittently with electrons, I, 218.
- Knoop, C. E.**, diluent for bovine semen, III, 175.
- Knopf, F.**, oxidative decomposition of principal foods in the animal body, III, 44.
- Knop, J.**, and **Kubelkova-Knapova, O.**, diphenylmethylamine-*p*-sulphonic acid as redox indicator [in the dichromate-iron titration], I, 285.
- Knopf, A.**, ludwigite from Colorado Gulch, near Helena, Montana, I, 170.
- Knopf, W. C., jun.**, and **Gilmore, W. C., jun.**, ultra-violet rotatory power of crystalline nickel sulphate at the temperature of liquid oxygen, I, 84.
- Knorr, H. V.** See **Albers, V. M.**
- Knott, E. M.**, thiamin content of milk in relation to vitamin-B₁ requirement of infants, III, 188.
- Kleiger, S. C.**, **Schultz, F. W.**, and **Collins, G.**, is breast milk adequate in meeting thiamin requirement of infants ?, III, 576.
- Kleiger, S. C.**, and **Torres-Bracamonte, F.**, thiamin content of breast milk, III, 499.
- Knott, J. E.** See **Lorenz, U. A.**
- Knotts, F. L.** See **Poth, E. J.**
- Knouf, E. G.**, **Mitchell, W. J.**, and **Hamilton, P. M.**, sulphonamides in influenzal meningitis, III, 263.
- Knowles, C. M.**, and **Watt, G. W.**, reduction of quinoline and substituted quinolines in liquid ammonia, II, 243.
- Knowles, E.** See **Altmann, M.**
- Knowles, F. G. W.**, photomechanics of pineal, III, 165. Hormones and sexual maturity of lampreys, III, 170.
- and **Callan, H. G.**, chromatophores of crustacea, III, 225.
- Knowlton, F. P.**, properties of crustacean muscle, III, 722.
- Knowlton, G. C.**, and **Gross, E. G.**, studying analgesic action of drugs in animals, III, 834.
- Knowlton, K.**, **Kenyon, A. T.**, **Sandford, I.**, **Lotwin, G.**, and **Fricker, R.**, comparative metabolic effects of oestradiol benzoate and testosterone propionate in man, III, 394.
- See also **Kenyon, A. T.**, and **Kirsner, J. B.**

- Knox, G. W. See Halstead, W. C.
- Knox, R., Gell, P. G. H., and Pollock, M. R., selective media for organisms of *Salmonella* group, III, 66.
See also Pollock, M. R.
- Knox, R., jun. See Loewe, S.
- Knox, W. E. See Green, D. E.
- Knox, W. J., jun., and Burbridge, T. N., vapour-phase esterification over zirconium oxide, I, 256.
- Knutson, J. W. See Armstrong, W. D.
- Kobler, R. S. See Foster, C.
- Kobosev, N. I., and Eremin, E. N., activation characteristics of thermal cracking of methane, I, 93.
and Kastanov, L. I., kinetics and energetics of high-temperature cracking of methane to acetylene, I, 156.
See also Goldfield, J. M.
- Kobrak, F. W., activity of intratympanic muscles, III, 319. The provocative test—mitigated numbing test based on susceptibility or vulnerability to noise, III, 475.
- Kobrak, H. G., experiments on conduction of sound through cavity of middle ear, III, 642. Direct observations of acoustic oscillations of human ear, III, 879.
- Lindsay, J. R., and Perlman, H. B., experimental observations on auditory masking, III, 236.
- Koch, E., selective media for staphylococci, III, 147.
- Koch, F. C., spayed-rat oestrogen assay method, and its application to pure oestrogens and urine extract, III, 31.
See also Borgstrom, E., Geithaml, J. J., Kenyon, A. T., Steiner, P. E., and Varney, R. T.
- Koch, H. P. See Heilbron, I. M.
- Koch, K. See Rieche, A., and Schöpf, C.
- Koch, L. A., and Caplan, J., castor bean poisoning, III, 52.
- Koch, P. K. See Olitzki, L.
- Koch, S. L., treatment of burns, III, 140.
- Koch, W., device for injections into ear of rabbits, III, 703.
- Kochendorfer, A., effect of photo-electrons released in the film and size of photometer slit on breadth of X-ray lines, I, 29.
See also Dehlinger, U.
- Kocher, H. See Barlow, O. W., and McChesney, E. W.
- Kochhar, B. D., nicotinic acid content of blood in diseases. I. Anaemia, III, 901.
- Kocholaty, W., cultural characteristics of *Penicillium notatum* in relation to production of antibacterial substance: indication of dual nature of antibacterial substance, III, 353.
- Kocsis, E. A., and Holló, Z., capillary analysis of important opium alkaloids in filtered ultra-violet light, II, 52.
and Kovács, E., determination of sodium phenylethylbarbiturate, II, 52.
and Pettkó, E., fluorescence indicators, I, 70.
and Zádor, G., morin as fluorescence indicator, I, 69. Thioflavine S as a luminescence indicator, I, 161.
- Koczy, F. F., "age" of terrestrial matter and geochemical uranium: lead ratio, I, 74.
- Kodama, K. See Sugawara, S.
- Kodicek, E., and Traub, B., complement activity and vitamin-C, III, 902.
- Kodicek, J. H., and Yudkin, J., slit-lamp microscope in nutrition surveys: observations in school-children, III, 310.
- Koechlin, B., and Reichstein, T., constituents of adrenal cortex and related substances. LXIV. Configurative connexion of 17(β)-hydroxypregnane derivatives with glycerol grouping in the side-chain, II, 374.
- Köggl, F., and Erxleben, H., chemistry of tumours. VI. Isolation of antipodes of glutamic acid, III, 749.
- Erxleben, H., and Herken, H., chemistry of tumours. VII. d-Glutamic acid in experiments with d-amino-acid oxidase, III, 749.
- Köggl, F., and Veldstra, H. [with Laan, P. J. van der], muscarine. II, II, 120.
- Koehler, A. E., effectiveness of replacement therapy in achlorhydria, III, 653.
- Köllensperger, F. K., action on central nervous system of gonadal hormones tested with galvanic current, III, 637.
- Koelsch, C. F., synthesis of cinnamic acids from methyl acrylate or acrylonitrile and diazonium salts, II, 162. Michael reactions, II, 231.
- Hochmann, H., and Le Claire, C. D., Friedel-Crafts reaction with cinnamic, crotonic, and β-chlorocrotonic acids, II, 164.
- and Hoffman, D. O., nitration of methyl 1-naphthoate and related compounds, II, 263.
- and Johnson, P. R., action of magnesium methyl iodide on methyl α-phenylcinnamate; synthesis of 2-phenyl-1:1-dimethylindene, II, 224. Thermal isomerisation of indene derivatives, II, 224.
- and Le Claire, C. D., action of acids on 2:3-epoxy-2:3-diphenylindanone, II, 266.
- and Lucht, F. J., experiments on use of cyclopentadiene in synthesis of sterol-like compounds, II, 303.
- and Wawzonek, S., ring-enlargement of 2:4:5-triphenylcyclopentenedione, II, 266.
- Koenig, F. O., and Grinnell, S. W., theory of galvanic cells subject to fields of force. II. Electric and magnetic field, I, 93.
- Koenig, H. See Karrer, P.
- Koenig, R. A., and Johnson, C. R., determination of iron in three diets, III, 296.
- Johnson, C. R., and Schiefelbusch, T. L., chromogenic reagent for vitamin-C determination, III, 502.
See also Hemphill, F.
- Koenigs, E., and Nantka, P. L., 3:6-diazacarbazole, II, 393.
- Koepf, G. F. See Klendshoj, N. C., and Thorn, G. W.
- Koeppen, U. See Gins, H. A.
- Koepsell, H. J., and Johnson, M. J., dissimilation of pyruvic acid by cell-free preparations of *Clostridium butylicum*, III, 141.
- Koerber, W. L., and Mook, G. E., testing of antigenic power of tetanus toxoid in mice, III, 358.
- Köster, H., and Logemann, W., oxidation of cholesterol; isolation of l-keto-2:13-dimethyl-4^α:14-dodecahydro-7-phenanthrol and preparation of derivatives, II, 235.
- Köster, W., structure and volume changes of zinc-copper-aluminium alloys. III. Equilibria in system copper-aluminium-zinc, I, 12.
- and Moeller, K., structure and volume changes of zinc-copper-aluminium alloys. I. Phase fields of concentration plane at 300°. II. Relation between CuAl and ternary crystal phase, I, 12.
- Koetsky, S., acquired bicuspid aortic valves with retracted horizontal raphes, III, 630.
- Kofler, A., isodimorphism of β-naphthol and naphthalene, I, 85.
and Brandstätter, M., polymorphism and miscibility in isomorphous group dibenzyl, stilbene, tolane, and azobenzene, I, 13.
- Kofler, M., fluorometric determination of tocopherol, II, 180.
- Koger, M., Burst, V., and Turner, C. W., effects of crystalline thyroxine on rate of growth, food intake, and body composition of female mice, III, 108.
- Reineke, E. P., and Turner, C. W., influence on growth of thyro-active iodocasein, III, 806.
- and Turner, C. W., effect of thyroxine on rate of growth and efficiency of weight increment, III, 476.
- Kohler, M., relation between isothermal and adiabatic Ettingshausen-Nernst coefficients, I, 2. Thermal conductivity and thermoelectric, galvanomagnetic, and thermomagnetic effects of isotropic metals in transverse magnetic fields, I, 10.
- Kohlrausch, K. W. F., and Reitz, A. W., Raman effect. CXI. Saturated heterocyclic compounds, I, 192.
and Wagner, J., Raman spectra. CX. Nitrogen compounds. XVII. Thioacetamide and thiocarbamide. CXXXVII. Structure of dimeric aluminium trimethyl and trihalides, I, 50, 144.
- Kohls, G. M. See Parker, R. R.
- Kohlstaedt, K. G., and Page, I. H., hemorrhagic hypotension and its treatment by intra-arterial and intravenous infusion of blood III, 870.
See also Page, I. H.
- Kohn, F., Hall, M. H., and Cross, C. D., propamidine in wounds and burns, III, 761.
- Kohn, H. I., and Harris, J. S., action of sulphonamides on *E. coli*, III, 194. Methionine made an essential growth factor by cultivation of *E. coli* in presence of methionine and sulphaniamide, III, 433. Action of sulphonamides. III. Purines, amino-acids, peptones, and pancreas as antagonists and potentiators of sulphonamide in *E. coli*, III, 581.
See also Harris, J. S.
- Kohn, J. L. See Schwarz, H.
- Kohn, M., demonstration of properties of Prussian-blue, I, 262. Preparation of pentabromophenol and bromanil from phenol, II, 298.
- Kohn-Speyer, A. C. See Plaut, A.
- Kojis, F. G., serum sickness and anaphylaxis, III, 70.
- Kolarow, N., volatility of potassium or sodium sulphate in gravimetric determination of potassium or sodium as K_2SO_4 or Na_2SO_4 , I, 263.
- Kolb, A. McM. See Stiles, M. H.
- Kolb, E. M. See Reich, C.
- Kolbezen, M. J. See Kinney, C. R.
- Kolen, A. A., Soviet military ophthalmology, III, 729.
- Kolesnikova, N. A. See Butkevitsch, V. S.
- Koleva, N. V. See Sveschnikov, A. T.
- Kolhatkar, G. B., and Sant, U. A., catalytic decomposition of potassium chlorate. I. and II, I, 132.
- Kolhorster, W., cosmic ray coincidences, I, 270.
- Koller, F., deficiency diseases; general pathogenesis and symptoms, III, 187.
and Soldati, B., species-specificity of thrombokinase, III, 625.
- Koller, T., problem of thrombosis in obstetrics and gynaecology, III, 713.
and Andere, K., clinical experiences with follicle and corpus luteum hormones, III, 116.
- Kolloff, H. G. See Hunter, J. H., and Nathan, A. H.
- Kollrus, J. J., development of corneal reflex in Amphibia. III. Influence of periphery on reflex centre, III, 731.
- Kolmer, J. A., comparison of tissue and spirochaetal antigens in complement-fixation tests for syphilis based on results observed in Washington serologic survey, III, 358.
- Bondi, A., jun., and Rule, A. M., persistence of antibodies one year after active immunisation of human beings with mixed heat-killed vaccine of *B. typhosus*, *Br. abortus*, and *Br. melitensis*, III, 62.
- Brown, H., Groskin, L., and Rule, A. M., sulphonamide therapy of streptococcus infections by intravenous drip method, III, 48.
and Rule, A. M., ineffectiveness of sulphonamides in poliomyelitis of mice, III, 50.
See also Raiziss, G. W.
- Kolotirkin, J., and Frumkin, A., hydrogen overvoltage and solution of metals. I. Solution of lead in acids, I, 131.
- Kolthoff, I. M., and Carr, C. W., ageing and co-precipitation. XXXVII. Distribution coefficient of arsenate between magnesium ammonium phosphate and solution, I, 198.

- Kolthoff, I. M., and Hume, D. N., determination of iodate in presence of bromate and chlorate, I, 184.
 and Kahan, G. J., attachment and detachment of dropping mercury under various conditions, I, 60.
 and Watters, J. I., polarographic determination of manganese as tri-dihydrogen pyrophosphatomanganate, I, 164.
 See also Cohn, G.
- Komagata, S. See Manegold, E.
- Komarewsky, V. I., and Kritschevsky, T. H., synthesis of olefine hydrocarbons by catalytic condensation and dehydration of aliphatic aldehydes, II, 213.
 See also Saunders, R. H.
- Komarov, S. A., physiological properties of specific gastric secretagogue of pyloric mucous membrane, III, 35.
- Komatsu, K. See Kawai, S.
- Komor, J. See Jenckel, E.
- Komovski, G. F., apparatus for detecting luminescent ores, I, 239.
- Komppa, G., position of substituents in Reychler's sulphocamphoric acid and so-called β -bromocamphor, II, 376.
- Konczak, A. See Prelog, V.
- Kon, G. A. R., and Ross, W. C. J., sapogenins. XVII. Position of carboxyl group in oleanolic and glycyrrhetic acids, II, 68.
- Kon, S. K. See Bacharach, A. L., and Macrae, T. F.
- Kondi, A. See Foy, H.
- Kondilenko, I. I., and Schischlovski, A. A., photo-luminescence in liquid and solid solutions of thallium salts, I, 50. Light yield of photoluminescence of aqueous solutions of thallous salts, I, 58.
- Kondorski, E., theory of normal and ideal magnetisation curve of a polycrystalline ferromagnetic, I, 83.
- Kondrateev, V., photochemical oxidation of carbonyl sulphide, I, 95.
 See also Kondrateva, E.
- Kondrateva, E., and Kondrateev, V., thermal decomposition and oxidation of sulphur monoxide, I, 155.
- Koneff, A. A. See Wainman, P.
- Koniusz, F. See Folkers, K.
- Konovalov, A. S., and Evstropoev, K. S., viscosity of system $\text{SiO}_2\text{-PbO}$, I, 11.
- Konstantinov, A. See Dshelepopov, B.
- Konya, A. See Kozma, B.
- Koo, T. H. See Yu, H.
- Kopac, M. J. See Hutchens, J. O.
- Kopelman, H. See Landau, E.
- Kopet, J. C., and Dille, J. M., elimination of ergotoxine, ergotamine, and ergonovine [ergometrine], III, 197.
- Kopfermann, H., and Paul, W., inverse Stark effect of sodium D line, I, 269.
- Kopp, I., and Solomon, H. C., liver function in therapeutic malaria, III, 565.
- Koppanyi, T., and Linegar, C. R., cross-circulation as method for study of drug fixation and poisoning, III, 513.
- Koran, P. See Bailey, B., and Belfer, S.
- Koransky, D. S. See Levin, I. M.
- Kordecki, F. A. See Bock, J. C.
- Kordes, E., ionic radii and periodic system. II. Calculation of ionic radii from physical atomic data, I, 53. Ionic radii and the periodic system, I, 220.
- Korenchevsky, V., the war and ageing, III, 249, 556.
- Hall, K., and Clapham, B., vitamins and experimental hyperthyroidism, III, 389.
- Korenyi, Z. See Beznak, M.
- Korff, S. A., operation of proportional counters, I, 102.
- Korjinski, D. S., deposits of metasomatic contact reaction, I, 105.
- Korkosz, A., blood and plasma bank, III, 83.
- Kornblum, D., roentgenographic visualisation of thoracic duct and cisterna chyli, III, 378.
- Kornblum, K., polyostotic fibrous dysplasia, III, 78.
- Kornblum, N., and Holmes, H. N., batyl alcohol, II, 149.
- Kornfeld, M., and Schestichin, P., elasticity of a crystal as dependent on temperature, I, 84.
- Kornhauser, S. I., quadruple tissue stain for strong colour contrasts, III, 452.
- Kornilov, I., and Minz, R., composition-thermostability diagram of ternary solid solution of iron-chromium-aluminium alloys, I, 59.
- Kornzweig, A. L., development of human eye at 5 mm. and 5/10 mm. embryonic stage, III, 309.
- Korte, H., and Meidinger, W., actinic value of light sources, I, 265.
- Kortüm, G., mesomeric anions containing nitro-groups, I, 295. Assignment of absorption bands in conjugated systems of chromophores, I, 296.
- and Grambow, J., colorimetry and spectrophotometry as analytical methods, I, 238.
- Koschara, W., Selpen, S. von der, and Aldred, P. A., fluorescence analysis of human urine, III, 657.
- Koschtojan, C. S., plant growth-substances in animal tissues, III, 293.
- Koser, S. A., Breslove, B. B., and Dorfman, A., accessory growth factor requirements of *Brucella* group, III, 433.
- Dorfman, A., and Wright, M. H., aspartic acid as partial substitute for biotin in stimulation of growth of *Torula cremoris*, III, 352.
- and Wright, M. H., accessory growth factor requirements of *Brucella* group, III, 62.
- See also Bass, A., and Dorfman, A.
- Koshantschikov, I. V., gaseous metabolism in *Ornithodoros* species, III, 232.
- Kosheurov, V. See Essin, O.
- Kosin, I. L., and Munro, S. S., effect of sex hormones, separately and combined, in proliferation and hydration of combs and cloacae of male chicks, III, 174.
- Koslapoff, G. M., preparation of bisaryl-phosphonic acids, II, 178.
- Koss, W. F. See Hodge, H. C.
- Kossel, W., Ackermann, I., and Möllenstedt, G., symmetrically-excited electronic interferences, I, 272.
- Kossiakoff, A., and Rice, F. O., thermal decomposition of hydrocarbons, resonance stabilisation, and isomerisation of free radicals, I, 203.
- Koster, H., blood pressure changes during spinal anaesthesia in non-operative cases, III, 91. Concentration of procaine in cerebrospinal fluid of man after subarachnoid injection, III, 420.
- and Sarnoff, S. J., circulation time; amorphillin as a new agent, III, 305, 790.
- See also Goldberg, A.
- Kosterlitz, H. W., apparent dissociation constants of galactose-1-phosphoric acid, I, 278. Structure of galactose phosphate present in liver during galactose assimilation, III, 828. Fermentation of galactose and galactose 1-phosphate, III, 844.
- and Ritchie, C. M., determination of glucose 1-phosphate and galactose 1-phosphate in liver, III, 655.
- Kotake, M., and Kubota, T., constituents of *Ampelopsis meliaeefolia*, Kudo (Haku-Tya), II, 380.
- Kotalik, G. See Bourque, J. E.
- Kotby, A., treatment and prevention of ocular diseases by vitamins, III, 468.
- Kothare, A. N. See Kanvinde, C. K.
- Kothari, D. S., and Singh, B. N., thermodynamics of a relativistic Fermi-Dirac gas, I, 32.
- See also Rai, R. N.
- Kotov, V. P., and Breger, A. C., determination of integral energies of X-ray lines in structure analysis. III. Integral photometry of diffraction spots, I, 318.
- and Raichstein, S., structure of calcium peroxide, I, 145.
- See also Breger, A. C.
- Kottke, F. J., Code, C. F., and Wood, E. H., urine dilution and concentration tests in adrenalectomised dogs, III, 23.
- Kottler, F., statistical mechanics of binary mixtures, I, 179. Fluidity of mixtures which obey Batschinski's law, I, 224.
- Koucky, R. W. See Reimann, H. A.
- Kovács, E., and Engel, M., experiments with melanin, II, 345.
 See also Kocsis, E. A.
- Kovács, I., and Singer, S., interaction of three spectral terms, I, 45.
 See also Budo, A.
- Kovács, J. See Goreczky, L., Ludány, G., and Schulek, E.
- Kovitz, B. See Langendorf, R.
- Kovner, M. A., quantum theory of ammonia molecule, I, 51. Theory of colour of organic compounds, I, 80.
- Koyenuma, N., theory of biological effect of radiation. II, III, 199. Doubling of nuclei of cells and genes and total number of genes and chromosomes in nucleus, III, 299.
- Kozinn, P. J. See Pisetsky, J. E.
- Kozma, B., and Konya, A., calculation of multiple terms of Na and K atoms, and ground terms of the Al^+ and Al^{++} ions, I, 1.
- Kozoll, D. D., pseudohermaphroditism, III, 114.
- Krabbe, W., Gulemeyer, K., and Polzin, E., synthesis of isoquinoline derivatives. III. Preparation of *N*-acylvinylamines from *N*-acylaminocarcohols, II, 263.
- Eisenlohr, W., and Schöne, H. G., synthesis of isoquinoline derivatives. IV. Synthesis of oxazolines and isoquinolines from *N*-acylaminocarbinols, II, 282.
- Kracke, R. R. See Hoffman, B. J.
- Kraehenbuehl, J. O. See Badger, A. E.
- Kraemer, M., sulphaguanidine for ulcerative colitis, III, 264.
- Kraemer, W. H., survival statistics of breast cancer, 1925—1935, III, 184.
- Krafka, J., jun., mechanical principles effective in aortic sclerosis, III, 379.
- Kraft, F. L. See Jacobson, E.
- Kraft, H. See Hein, F., and Schmidt, O. T.
- Krahel, M. E. See Hutchens, J. O.
- Krahler, S. E., and Burger, A., nitration of lepidine and 2-chloroepidine, II, 103.
- Krajian, A. A., demonstration of acid-fast organisms in tissue sections, III, 860.
- Krakower, C., Hoffman, W. A., and Axtmayer, J. H., portal-systemic collateral veins in guinea-pig with schistosomal cirrhosis of the liver, III, 815.
- Morales-Otero, P., and Axtmayer, J. H., effect of sulphanilamide in experimental leprosy, III, 509.
- Krall, H. See Sahasrabudhey, R.
- Kramár, J., pharmacology of children, III, 836.
- Kramer, A., and Schrader, A. L., effect of nutrients, media, and growth substances on growth of Cabot variety of *Vaccinium corymbosum*, III, 216.
- Kramer, B. See Gibel, H.
- Kramer, J. See Justi, E.
- Kramer, S. See Dieckmann, W. J.
- Kramer, T. C., partitioning of truncus and conus and formation of membranous portion of interventricular septum in human heart, III, 154.
- Krampitz, L. O., fixation of carbon dioxide in oxalacetic acid and its relationship to bacterial respiration, III, 690.
- Wood, H. G., and Werkman, C. H., enzymic fixation of carbon dioxide in oxalacetate, III, 350.
- See also Woolley, D. W.
- Krantz, J. C., jun., Bell, F. K., and Carr, C. J., pharmacology of *Xanthum*, III, 910.
- Carr, C. J., Evans, W. E., jun., and Forman, S. E., anaesthetic action of methyl isopropyl ether, III, 762.
- See also Carr, C. J., Ellis, F. W., Evans, W. E., jun., and Grant, W. C.
- Krasnikov, A. I., X-ray tube for analysis of fluorescence spectra, I, 239.
- Krasno, L. R. See Carlson, A. J.

- Krasnova, V. S., determination of sodium by uranyl method, I, 236.
- Kratky, O., calculation of dimensions of colloidal particles from scattering of X-rays at small angles, I, 60.
- Schossberger, F., and Sekora, A., comparison of intensities of X-ray interferences of different objects; construction of a comparison camera for fibre photographs, I, 43. See also Baule, B.
- Kratz, H. R., and Mack, J. E., absorption spectra of potassium, rubidium, and caesium, I, 173.
- Kratzer, F. H. See Almquist, H. J., Bird, F. H., and Lepkovsky, S.
- Kraus, E. J., sarcoidosis (Boeck-Besnier-Schaumann disease) as cause of pituitary syndrome, III, 239.
- Kraus, I., and Kalal, E., effect of standing on blood-cholesterol and cholesterol ester values, III, 88.
- Kraus, J. See Rabald, E.
- Kraus, R., air-free carbon dioxide from Kipp apparatus for Dumas nitrogen determination, I, 312.
- Krause, A. C. See Tauber, F. W.
- Krause, H., gravimetric determination of the fluoride ion, I, 161.
- Krause, R. F., changes induced by anaemia in bone-marrow lipins of cats, III, 861.
- Krauss, W. E., Washburn, R. G., Hibbs, J. W., Sutton, T. S., and Van Denmark, N., blood picture in normal and milk fever cows, III, 503. See also Monroe, C. F.
- Kraut, H., and Weber, M., determination of silica in blood, III, 376.
- Krauze, E., and Bergman, A. G., double decomposition in absence of a solvent; singular irreversible-reciprocal systems without separation into layers from potassium and calcium chlorides and fluorides and sodium and calcium chlorides and fluorides. I, I, 92.
- Kravitz, D., pigmentation of optic disc, III, 733.
- Kravkov, S. V., effect of strychnine on intensity discrimination in human eye, III, 878.
- Kravtschenko, L. L. See Starik, I. E.
- Kravtschenko, V. M., thermodynamical calculation of quaternary systems; system o-xylene, m-xylene, p-xylene, ethylbenzene, I, 129.
- Kraybill, H. R. See Beadle, B. W.
- Krayer, O. See Moe, G. K.
- Kruchma, L. C. See Copley, A. L.
- Krebs, H. See Pfeiffer, P.
- Krebs, H. A., urea formation in mammalian liver, III, 36.
- Bach, S. J., and Williamson, S., urea synthesis in mammalian liver, III, 337.
- and Eggleston, L. V., effect of citrate on rotation of molybdate complexes of malate, citramalate, and isocitrate, II, 350.
- and Mellanby, K., effect of national wheatmeal on absorption of calcium, III, 900.
- Krebs, R. P., and Kersten, H. J., photo-electric fluorimeter, I, 166.
- Kredel, F. E., painful scars, III, 382.
- Kregel, L. A. See Ashworth, C. T., and Muirhead, E. E.
- Krehl, W. A., Strong, F. M., and Elvehjem, C. A., determination of nicotinic acid; modifications of microbiological method, III, 753.
- Kreider, W. A. See Hansen, L.
- Kreisheimer, K., testing of magnetic materials using a cathode-ray oscillograph with electrostatic deflexion only, I, 102.
- Kreitlow, K. W., effects of visible radiation on pigmentation of *Serratia marcescens*, III, 285.
- Kreke, C. W. See Nutini, L. G.
- Kremers, E. See Dodge, A. A.
- Kreps, E., and Tschenikaeva, E., respiratory function of blood of insects, III, 162.
- Carbonic anhydrase in crustaceans, III, 201.
- Kress, B. H. See Turner, W. J.
- Kress, L. C. See Levin, M. L.
- Krestinski, J. A. See Fastovski, V. G.
- Kretschmer, H. L., diverticula of urinary bladder, III, 487. See also Heckel, N. J.
- Kreuzer, J., spectrum of n-primary alcohols between 14,000 and 9000 cm.⁻¹, I, 5.
- Krewson, C. F., determination of nicotinamide, II, 288.
- Krichesky, B., Benjamin, J. A., and Slater, C., inactivation of endogenous androgens by liver in rabbits, III, 812.
- Krider, M. M. See Neumann, F. W.
- Krieger, H. P. See Wald, G.
- Krieger, P., and Hagner, A. F., gold-nickel mineralisation at Alistos, Sinaloa, Mexico, I, 322.
- Krieger, V. I., Shute's test for anti-proteolytic properties of human serum in cases of abortion, premature labour, accidental haemorrhage, and normal pregnancy, III, 393.
- Krill, C. E. See Francis, T.
- Krimsky, E., objective binocular examination of the young child, III, 799. Fixational corneal light reflexes as aid in binocular investigation, III, 799.
- Krinberg, C. A. See Marshall, C. E.
- Krishnaswamy, B., and Seshadri, T. R., synthetic experiments in benzopyrone series. VI. Action of aluminium chloride on angelicin, psoralen, and related compounds, II, 100.
- Krishnaswamy, T. K., estimation of cystine by nitroprusside, II, 287.
- Kriss, B. See Frank, R. T.
- Kriss, M., and Bowman, R. S., metabolism of arginine and leucine with reference to respiratory exchange and heat production, III, 504. See also Archer, H. E., and Voris, Le R.
- Kritchevsky, D., preparation of cholestryloxy-p-aminobenzoate, II, 198. Diethyl acetal of γ -methyl- Δ^{γ} -butenol, II, 217.
- Kritschevskii, I. R., and Gamburg, D., solubility of liquids in compressed gases; solubility of benzene in compressed nitrogen, I, 88. and Ziklis, D. S., limited mutual solubility of gases at high pressures, I, 151.
- Kritschevsky, T. H. See Komarewsky, V. I.
- Kritten, J., daily multiple injections of mapharside in syphilis, III, 514.
- Kritzler, R. A. See Miller, J. L.
- Kriukova, T. A., movement of solution near a dropping cathode. II. Velocity of movement of solution and increase of current strength on polarographic curve "current strength-voltage," I, 182. Relation between height of polarographic wave of a cation and the concentration of the background, I, 309. Theoretical problems in practical polarographic work, I, 319.
- Krivitsch, S. S., overtones and complex frequencies in the hydrazine spectrum, I, 142.
- Krockert, G. See Scheunert, A.
- Krockow, E. W. See Ziegler, K.
- Kröhne, F., synthesis of pyridinium ethanols. IV. Syntheses with carbethoxymethylpyridinium bromide, II, 243.
- and Schulze, A., hydroxyamine fissions. I., II, 171.
- Kroner, W., and Volksen, W., potato fat, III, 295.
- and Wegner, H., substances in potato responsible for odour and taste, III, 363.
- Krohn, L. See Hechter, O.
- Krome, H. See Eucken, A.
- Kromp, K. See Späth, E.
- Kron, G. E., coefficient of limb-darkening for YZ(21) Cassiopeiae in red light, I, 110.
- Kronfeld, P. C., McGarry, H. I., and Smith, H. E., gonioscopic studies on canal of Schlemm, III, 103. Effect of mydratics on intraocular pressure in so-called primary wide-angle glaucoma, III, 469.
- Kronig, R., electrical discharge in liquids of simple structure, I, 116.
- Krotkov, G., diurnal changes in carbohydrates of wheat leaves, III, 444. See also Eccles, J. C.
- Krotov, B. P., "friable" bauxites and cretaceous crust of bauxite weathering in Sokolov deposit of the Kamensk (Central Urals) region, I, 74. Role and significance of epeirogenetic movements in formation of deposits of iron and manganese ores and bauxites, I, 140. Relation between ferro-nickel and nickel ores of the Urals, I, 323.
- Kruckenberg, W. See Zeile, K.
- Krüger, A., accurate determination of sulphuric acid as barium sulphate, I, 161.
- Krueger, E., and Unna, K., comparative studies of toxic effects of digitoxin and ouabain in cats, III, 420.
- Krüger, H. E. See Broser, W.
- Krüger, W., action of nitric acid on vegetable seed shells, II, 286.
- Kruger, A. L., gastric acidity in pulmonary tuberculosis, III, 892.
- Kruger, H. E. See Friedman, M.
- Krus, A., and Geffcken, W., dispersion of liquids and solutions. II. Dispersion of water in the visible and ultra-violet, I, 31. See also Geffcken, W.
- Krumbhaar, E. B., congenital cardiac anomalies, III, 541.
- Krundieck, N. See Hass, G. M.
- Krupkin, A. I. See Raines, M. M.
- Krupp, M. A., incidence of nutritional and vitamin deficiency, III, 406. Urinary sediment in visceral angitis, III, 487.
- Krupski, E., and Fischer, Louis, phytochemistry of root bark and fruit of *Cornus nattallii*, III, 151.
- Kruyt, H. R., Vermaas, D., and Hermans, P. H., deformation and orientation of isotropic cellulose nitrate fibres. III. Double refraction of swollen and soaked fibres, I, 61.
- Ku, Z. W., Stark effect and its connexion with thermodynamics and magnetic behaviour of chrome alum at low temperatures, I, 245.
- Kubaschewski, O., energetics of alloy formation, I, 150.
- and Schrag, G., specific heats of nickel, bismuth, and phosphorus, I, 253.
- Kubelková-Knopová, O. See Knop, J.
- Kubico, M. A. See Riegel, B.
- Kubie, L. S., physiological approach to concept of anxiety, III, 100. See also Margolin, S.
- Kubin, R. See Singer, K.
- Kubo, T., transformation of cellulose hydrate into natural cellulose. V., I, 277.
- Kubota, T. See Kotake, M.
- Kuck, J. A. See Marshall, E. R., Rodden, C. J., and Royer, G. L.
- Kuder, A. See Dill, L. V.
- Kuder, K. See Javert, C. T.
- Kuder, R. C. See Egloff, B.
- Kudra, O. K., and Kleibs, G. S., decomposition potentials of the systems AsBr₃-ether and SbCl₃-ether at various current densities. I. and II., I, 17.
- Kudriashov, B. A. See Pakendorf, K.
- Kuebel, A. See Safford, H. W.
- Kuehner, A. L., unimolecular film demonstrations, I, 104.
- Kündig, J. J., and Briner, E., chemical action of electric discharges. XXX. Production of acetylene and other hydrocarbons by means of continuous and alternating arc (high- and low-frequency) operating between carbon electrodes in an atmosphere of hydrogen, I, 95.
- Kündig, W. See Naegeli, C.
- Küntzel, A., and Droscher, T., coloured copper complexes formed by the biuret reaction with proteins and protein fission products, II, 345.
- Kuether, C. A. See Roe, J. H.
- Kuever, R. A. See Stahl, K. H.
- Kuffler, S. W., responses during refractory period at myoneural junction in isolated nerve-muscle fibre preparations, III, 13. Transmission in an isolated nerve-muscle fibre preparation, III, 13. Specific excitability of end-plate region in normal and denervated muscle, III, 793.

- Kugelmass, I. N., haemorrhagic problems in child surgery, III, 227.
- Kuhlenbeck, H. See *Globus*, J. H.
- Kuhlman, A. H., and Gallup, W. D., carotene (provitamin-A) requirements of dairy cattle for conception, III, 497.
- Kuhn, A., fluorescence of solids in compact and dispersed states, I, 81.
- Kuhn, H. S., and Wille, E. C., jun., are welders subject to depletion of visual purple while at work ?, III, 386.
- See also Tiffin, J.
- Kuhn, R., Birkofe, L., and Sorensen, N. A., iron proteins of spleen; structure of ferritin, II, 314.
- and Low, I., optical rotatory power of crocin in true and in colloidal solution, II, 57. Androtermone of *Chlamydomonas eugametos*; *t*-4-hydroxy-2:6:6-trimethyl-*A*¹-tetrahydrobenzaldehyde, II, 369.
- Low, I., and Moewus, F., highly active glucoside from crocus pollen, III, 75.
- and Moewus, F., chemical action of genes *Mot*, *Mp*, and *Gathe* in *Chlamydomonas*, III, 701. What is the cause of relative proportions of *cis*- and *trans*-crocetin dimethyl ester in sexually-separate species of *Chlamydomonas* ?, III, 701.
- and Wallenfels, K., echinochromes as prosthetic groups of symplexes of high mol. wt. in eggs of *Arbacia pustulosa*, III, 738.
- and Wieland, K., resolution of *dl*-pantothenic acid, with cinchonidine, II, 355.
- Kuhn, W. See Martin, Hans, and Reichert, B.
- Kuizenga, M. H., and Spaulding, L. B., highly active barium salt of heparin and its fractionation into two chemically and biologically different constituents, III, 712.
- Wick, Arne N., Ingle, D. J., Nelson, John W., and Cartland, G. F., preparation and comparative physiological activities of ox, pig, and sheep adrenal cortex extracts, III, 646.
- Kuk, S. See Fodor, P. J.
- Kulberg, L. M., use of an iodine derivative of methylene-blue in qualitative analysis, I, 236.
- and Jurovskaja, F., determination of traces of zinc with Pulfrich's photometer, I, 315.
- and Rovinskaja, E. I., determination of traces of aluminium with aluminon, I, 316.
- Kulchar, G. V., and Reynolds, W. J., bismuth hepatitis, III, 591.
- Kulenkampff, H., hard component of cosmic radiation, I, 270.
- Kuleshina, L. P. See Poljakov, M. V.
- Kulikov, S. G. See Levina, R. J.
- Kulka, M., and Hibbert, H., lignin and related compounds. LXVII. Isolation and identification of α -4-hydroxy-3:5-dimethoxyphenylpropan- β -one and α -4-hydroxy-3-methoxyphenylpropan- β -one from maple wood ethanolysis products; metabolic changes in lower and higher plants. LXVIII. Synthesis and properties of α - and γ -ethoxy- α -4-hydroxy-3-methoxyphenylpropan- β -one and their methyl ethers, II, 301, 346.
- Kulkarni, P. Y., condensation of chloral with 2-methyl-4-quinazolone, 2-methyl-3-amino-4-quinazolone, and derivatives, II, 390.
- See also Hirwe, N. W.
- Kull, J., prostigmine in treatment of glaucoma, III, 18.
- Kulpinski, M. S., and Nord, F. F., essential steps in catalytic condensation of aldehydes; synthesis of glycol esters, II, 319.
- Kumar, L. S. S., and Abraham, A., colchicine-induced polyploidy in *Phaseolus radiatus*, L., III, 537.
- Kumler, W. D., dipole moment of *ms*-tetraphenylporphine, I, 117.
- See also Halverstadt, I. F.
- Kummer, J. T. See Emmett, P. H.
- Kummerow, F. A. See Quackenbush, F. W.
- Kunberger, D. A. See Dayton, N. A.
- Kundu, D. N., identification of lines in solar corona, I, 141.
- Kuno, H., crystallisation of pyroxenes from rock magmas, with reference to formation of pigeonite, I, 28. Petrological notes on pyroxene-andesites from Hakone volcano, with reference to types with pigeonite phenocrysts, I, 28.
- Kunstadter, R. H., and Necheles, H., effect and mechanism of amphetamine sulphate on weight reduction, III, 912.
- Kuntz, A., and Saccomanno, G., afferent conduction from extremities through dorsal root fibres via sympathetic trunks: relation to pain in paralysed extremities, III, 97.
- Kunz, A. F., lactoflavin metabolism in two patients with generalised eczema, III, 753.
- Kupferberg, M., vacuum-tube voltmeter for measuring high negative potentials, I, 319.
- Kurauta, Y., and Kazuno, T., trihydroxy-cholane [sulphate], trihydroxycholene, and trihydroxybisoristerocholanic acid from the bile of *Rana catesbeiana*, Shaw, II, 269.
- Kurbatov, J. D. See O'Connor, J. J., and Weimer, (Miss) K. E.
- Kurnakov, N. N., chromium-silicon system, I, 59. System chromium-silicon-iron in the region of silicochrome, I, 59.
- Kursanov, D. N., and Zelvin, R. R., condensation reaction under influence of aluminium chloride, II, 85.
- Kurtz, L. T., elimination of fluoride interference in molybdenum-blue reaction [for phosphate], I, 99.
- See also Smith, G. F.
- Kurtz, M. B., and Hill, E., Kahn test: evaluation of results obtained with plasma, III, 66.
- Kurtz, R. A. See Hennion, G. F.
- Kurylenko, C., correlation of fringes near the K X-ray absorption discontinuity and electrical conductivity in haematite, magnetite, and pyrites, I, 252.
- Kurzrok, L., Birnberg, C. H., and Livingston, S., use of ethinylestradiol to prevent lactation in puerperal patients, III, 120.
- See also Weber, H. W.
- Kusaka, S. See Pauli, W.
- Kuschnerov, M., and Schechter, A., formaldehyde synthesis from methane and oxygen atoms, II, 81.
- Kushner, J. I., inhibition of lactation. II. Oral use of methyltestosterone, III, 120.
- Kusserow, G. W. See Plattner, P. A.
- Kuteinikov, V. E., determination of tervalent chromium in chromic acid, I, 317.
- Kuthy, A. von, permeability [through sugar-beet membranes], III, 838.
- Kutschinskaja, K. I. See Buschmakin, I. N.
- Kuttner, A. G., and Reyersbach, G., prevention of streptococcal upper respiratory infections and rheumatic recurrences in rheumatic children by prophylactic use of sulphanilamide, III, 508.
- Kuvshinova, O. P. See Altergot, V. F.
- Kuyper, A. C., rate of excretion of ingested acid and alkali, III, 131.
- Kuzell, W. C., Layton, W. B., Frick, W. D., and Cutting, W. C., actions, toxicity, and clinical effects in amoebiasis of Kosam, an oriental amoebicide, III, 51.
- Kuziatina, N. S., determination of mercury in air with dithizone, I, 236.
- Kuzma, J. F., myoepithelial proliferations in human breast, III, 660.
- Kuzminich, I. N., and Surkov, E. I., automatic determination of oxygen, I, 235.
- Kuznetsov, A. J. See Skorniakov, M. M.
- Kuznetsov, E. S., approximate equations of transfer of radiation in a scattering and absorbing medium, I, 294.
- Kuznetsov, V. I., colour reactions for thorium, uranium, and other elements, I, 70. Colour reactions for detection of antimony, gallium, and other elements, I, 165.
- Kuznetsova, Z. I. See Favorski, A. E.
- Kvater, G. S., determination of absolute intensities of spectral lines, I, 293.
- Kwartler, C. E., and Lucas, P., synthesis of sulphanilylamidines, II, 186.
- Kwedar, A. T., Waterhouse-Friderichsen syndrome, III, 108.
- Kwok, T. H., Lee, C. H., and Sun, T. P., carotene content of Chinese fruits and vegetables, III, 663.
- See also Lee, C. H.
- Kyer, D. L., sinus glands and gastrolith formation, III, 38.
- Kyes, P., Markin, L., and Graham, O. J., abrupt increase in resistance to crotalus venom, III, 140.
- Kyrning, S., phenol-formaldehyde resins. IX. Hardening of resols; hardening of tri-p-cresol dialcohols. XIV. Hardening of resols; hardening of di- and tetra-alcohols of dihydric phenols, II, 189.
- L.
- Laan, P. van der. See Kogl, F.
- Laanes, T. See Bates, R. W.
- Labarre, J., and David, P., comparison of protein derivatives of *Vicia faba* and of casein, III, 596.
- and Dostert, R., progressive denaturation of proteins of *Vicia faba* seeds, III, 596.
- Labate, J. S. See Sheehan, D.
- LaBelle, G. C. See Chesler, A.
- Labhardt, A., treatment of dysmenorrhoea and its causation, III, 562.
- Labiola, R. See Berinzaghi, B., and Deulofeu, V.
- Laby, T. H., measurement of electronic charge, I, 46.
- Lacerda, L. B. See under Bruck-Lacerda, L.
- Lacey, W. N. See Olds, R. H., Reamer, H. H., and Sage, B. H.
- Lachman, E., comparison of posterior boundaries of lungs and pleura as demonstrated on cadaver and on roentgenogram of living, III, I.
- Lack, A. R., jun., occurrence of intravascular agglutinations in avian malaria, III, 521.
- Lackey, J. B. See Wheeler, R. E.
- Lackey, R. W. See Tainter, M. L.
- Lacy, A. M., and Novak, M., sulphonamides for safe storage of blood and plasma, III, 622.
- See also Novak, M.
- Lad, R. A. See Westheimer, F. H.
- Ladd, W. E., and Gross, R. E., surgical treatment of duplications of alimentary tract; enterogenous cysts, enteric cysts, or ileum duplex, III, 177.
- La Due, J. S., myxoedema heart; pathological and therapeutic study, III, 630.
- Lafferty, C. R. See Blue, J. H.
- LaForge, F. B., and Acree, F., jun., constituents of pyrethrum flowers. XV. Presence of cumulated system in pyrethrolone side-chain, II, 67.
- Lagemann, R. T., and Corry, J. E., velocity of sound as a bond property, I, 82.
- and Nielsen, H. H., near infra-red absorption spectrum of methyl iodide, I, 30.
- Lahey, F. N., spectrographic study of evodionol and its derivatives, I, 191. Constitution of evodionol, II, 241.
- See also Jones, T. G. H.
- Lahiri, K., and Ghosh, S., chemical examination of seeds of *Barringtonia acutangula*, Gaertn., III, 151.
- Lahiry, N. L., and Anantakrishnan, C. P., nutritive value of salt-water fish of west coast of India, III, 494.
- Lahr, E. L., Bates, R. W., and Riddle, O., non-specific results obtained with micro-method for assay of prolactin, III, 737.
- See also Riddle, O.
- Laidlaw, P. P. See Edward, D. G. ff.
- Laing, G. H., Beazell, J. M., and Ivy, A. C., relationship between roentgenographic abnormalities of gall bladder and constipation, III, 744.
- Laing, J. A., survival of stored spermatozoa in genital tract of mare, III, 480.
- Laitinen, H., electrolytic study of linear diffusion of silver salts, I, 10.
- See also Wawzonek, S.

- Lake, M., Cornell, N. W., and Harrison, H. E., post-operative achylia pancreatic; fat and protein absorption with and without replacement therapy, III, 483.
- Lakshminarainhaia, A., Manjunath, B. L., and Nagaraj, B. S., seeds of *Alangium lamarckii*, I, II, 12.
- La Lande, W. A., jun., Heinemann, H., and McCarter, W. S. W., determination of chloride in bauxite-supported anhydrous aluminium chloride catalysts, I, 234.
- Lalich, J. J., and Copley, A. L., determination of clot firmness, III, 303. Clot resistance in mice and mechanism of haemostasis, III, 372.
See also Copley, A. L., and Weber, C. J.
- Lamanna, C., relation of maximum growth temperature to resistance to heat, III, 61. Status of *Bacillus subtilis*; separation of precipitogens from bacterial spores, III, 285.
and Shapiro, I. M., sulphanilamide bacteriostasis in presence of mercuric chloride and p-aminobenzoic acid, III, 688.
- Lamb, F. W., direct determination of nicotinamide in vitamin mixtures, III, 666.
- Lamb, J. H., congenital epidermal canals of perineal raphe, III, 449.
- Lamb, M. W. See McCreeery, J.
- Lambert, A. See Coates, H., and Cook, A. H.
- Lambert, E., and Rosenthal, S. R., skin-histamine and splanchnic nerve stimulation, III, 875.
- Lambert, F. See Riebsomer, J. L.
- Lambert, R. H. See Sheppard, S. E.
- Lambert, W. V. See Hetzer, H. O.
- Lambie, D. A., analytical chemistry of tungsten. II. Separation of tungstic and phosphoric acids, I, 164.
- La Mer, V. K. See Barnes, (Miss) M. D., and Rippere, R. E.
- Lamm, O., and Malmgren, H., disparity measurements on a highly polymerised metaphosphate prepared according to Tammann, I, 135.
- Lamont, A. See Shumacker, H. B., jun.
- lamoreux, W. F., influence of different amounts of illumination on body weight of birds, III, 487. Hereditary chondrodystrophy in fowl, III, 543. Effect of differences in light and temperature on size of combs on White Leghorns, III, 890.
- Hutt, F. B., and Hall, C. O., breeding for low fecundity in the fowl with aid of the progeny test, III, 620.
- and Jones, D. G., effects of dubbing White Leghorn males, III, 562.
See also Jones, D. G.
- Lampen, J. O., Bahler, G. P., and Peterson, W. H., occurrence of free and bound biotin, III, 43.
- Peterson, W. H., and Underkofer, L. A., p-aminobenzoic acid, growth factor for *Acetobacter suboxydans*, III, 205.
- Lamport, H., effects on renal resistance to blood flow of renin, angiotonin, pitressin, and atropine, hypertension, and toxæmia of pregnancy, III, 232. Improvements in calculation of renal resistance to blood flow; charts for osmotic pressure and viscosity of blood, III, 719.
- Lancaster, J. E., orthoptic treatment of alternating squint, III, 17. Orthoptics: education in binocular skill, III, 729.
- Lancaster, W. B., nature, scope, and significance of aniseikonia, III, 316. Terminology in ocular motility and allied subjects, III, 468.
- Landahl, H. D., mathematical analysis of elongation and constriction in cell division, III, 225. Division of cell with impermeable membrane, III, 680.
- Landau, A., myasthenia gravis, III, 96.
- Landau, E., Louge, V., and Kopelman, H., pholedrine in prevention of operative shock, III, 266.
- Landau, L., and Levitsch, B., dragging of a liquid by a moving plate, I, 304.
- Landauer, W., supposed influence of cock's head appendages on size of testis, III, 35.
and Baumann, L., rumplessness of chick embryos produced by mechanical shaking of eggs prior to incubation, III, 784.
- Lander, G. See Hedwall, J. A.
- Landerkin, G. B. See Lochhead, A. G.
- Landes, J. H., reactions from diphtheria toxoid, III, 773.
- Landes, K. K., paragenesis of McDonald pegmatite near Hybla, Ontario, I, 241.
- Landgrebe, F. W., "silvering" and gonad development in fish, III, 647.
- Reid, E., and Waring, H., intermediate lobe pituitary hormone, III, 887.
See also Waring, H.
- Landis, J., adrenal haemorrhage, III, 108.
- Landow, H., Kabat, E. A., and Newman, W., distribution of alkaline phosphatase in normal and in neoplastic tissues of nervous system, III, 726.
See also Kabat, E. A.
- Landquist, V. A. See Fincke, M. L.
- Landsberg, E. See Morrison, M.
- Landsberg, J. W., blood picture of mature normal dogs, III, 369.
and Lischer, C. F., anthelmintic studies on mono-ethers of dihydroxybenzenes, III, 344.
- Landsteiner, K., serological reactivity of hydrolytic products from silk, III, 373.
and Wiener, A. S., tests for Rh factor with guinea-pig immune serum, III, 370.
See also Rothen, A.
- Landt, H. See Abramson, D. I.
- Landy, M., and Dicken, D. M., microbiological method for determination of p-aminobenzoic acid, II, 76.
and Oswald, E. J., sterility test for sulphanilamide powders, III, 673.
and Streightoff, F., effect of purines on sensitivity of *Acetobacter suboxydans* assay for p-aminobenzoic acid, III, 847.
- Landy, S. E. See Costello, M. J.
- Lane, C. G., and Blank, I. H., cutaneous detergents, III, 140.
- Lane, J. F., and Wallis, E. S., preparation of synthetic sex hormones. II. Derivatives of hexestrol, II, 266.
See also Brink, N. G.
- Lane, R. L., Johnson, E., and Williams, R. R., average American diet. I. Thiamin content, III, 408.
- Lane, R. W. See McDonald, H. J.
- Lane, T. J., McCusker, P. A., and Curran, B. C., electric moments of inorganic halides in dioxan. II. Chlorides of boron, aluminium, iron, silicon, germanium, and tin, I, 6.
- Lane, T. J. D., orchidectomy in cancer of prostate, III, 819.
- Lanford, C. S., liberal citrus intakes, I, III, 186. Effect on growth and calcium assimilation of citric acid-potassium citrate mixtures, III, 186.
- Landorf, O. E. See Rohrer, C. S.
- Lang, A., transference of inhibitory action of leaves on blossom formation in *Hyoscyamus niger* in short-day conditions by grafting, III, 361.
See also Melchers, G.
- Lang, E. H. See Reiner, L.
- Lang, K., and Adickes, F., animal fatty acid dehydrogenase and its codehydrogenase. IV. Reaction product of dehydrogenation of stearic acid and probable biological significance of fatty acid dehydrogenase, III, 681.
and Mayer, H., animal fatty acid dehydrogenase and its codehydrogenase. III. Chemical nature of codehydrogenases, III, 681.
- Lang, S. See Hock, H.
- Langman, W. B., ovulatory response of *Rana pipiens* to mammalian gonadotropic factors and sex hormones, III, 563.
- Langdon, W. M., and Keyes, D. B., isopropyl alcohol-water system; density-composition data and pyknometric technique, I, 198.
- Lange, K., recording sphygmotonograph: machine for continuous recording of systolic and diastolic arterial pressure in man III 629.
- Langenau, E. E. See Guenther, E. S.
- Langenbeck, W., and Borth, G., organic catalysts. XXIV. Aldol condensation in presence of secondary amino-acids, II, 82.
- Langendorf, R., and Kovitz, B., acute myocardial infarction without deviation of S-T segment in electrocardiogram, III, 90. See also Shleser, I. H., Strauss, S., and Wilburne, M.
- Langer, A., exchange of radioactive silver and bromide with silver bromide suspensions, I, 157.
- and Stevenson, D. P., location of the endpoint on graphical titration curves, I, 43.
- Langer, E. See Crowe, S. J.
- Langham, R. F., Ingle, R. T., and Hallman, E. T., histology of bovine kidney, III, 157.
- Langner, P. H., jun., and Fies, H. L., blood-sugar values in radial artery, antecubital vein, and finger, III, 375.
See also Dewees, E. J.
- Langrock, E. G. See Vorzimer, J. J.
- Langstroth, G. O., and Brown, W. W., absorption phenomena in a condensed spark source, I, 29.
- Lanham, U. N. See Sumner, F. B.
- Lanier, L. H., variability in pain threshold, III, 320.
- Lankford, C. E., Scott, V., Cox, M. F., and Cooke, W. R., aspects of nutritional variation of gonococcus, III, 689.
and Snell, E. E., glutamine as growth factor for strains of *Neisseria gonorrhoeae*, III, 689.
- Lansing, A. I., calcium and ageing. I. and II, III, 621.
and Scott, G. H., effect of perfusion with sodium citrate on content and distribution of minerals in cells of cat as shown by electron microscopy and microincineration, III, 300.
- Lanyar, F., alcaptonuria and pregnancy, III, 48. Experimental alcaptonuria in white mouse, III, 260. Degradation of d- and l-phenylalanine and tyrosine in alcaptonuria, III, 260.
- Lanzl, G. See Riegel, B.
- Lapicque, L., size of brain in relation to body size, III, 77.
- Lapidus, P. W., misconception about "springiness" of longitudinal arch of foot: mechanics of arch of foot, III, 617.
- Larin, J. H., whooping cough vaccines, III, 921. Mixed immunisation in infancy and childhood, III, 925.
- Klein, W., and Goldman, A., cryptorchidism, III, 743.
- Laporre, O., and Mack, J. E., spectrum of neutral tungsten, W 1, I, 189.
- Lapp, A. D. See Tytler, W. H.
- Lapschinskaja, L. L. See Vassiliev, A. A.
- Laqueur, G. L., effects of testosterone propionate on mammary glands of female albino rats, III, 564.
and Fluhmann, C. F., action of testosterone on female rat hypophysis, III, 24. Effects of testosterone propionate in immature and adult female rats, III, 244.
See also Fluhmann, C. F.
- Lardon, A., Grandjean, P., Press, J., Reich, H., and Reichstein, T., bile acids and related substances. XVIII. Simplified preparation of methyl Δ^{11} -cholenates by thermal fission of 12-benzoyloxy-derivatives, II, 167.
- Grandjean, P., and Reichstein, T., bile acids and related substances. XXIII. Esters of 3:11-diketo-, 3(a)-hydroxy-11-keto- and 3(a):11(a)-dihydroxy-cholanic acid, II, 238.
- and Reichstein, T., bile acids and related substances. XXV. Esters of 3-keto- and 3(a)- and 3(β)-hydroxy- Δ^{11} -ætiocolenic acid.
- XXVI. Derivatives of ætiocolanic acid with oxygen in 3- and 11-position, II, 238, 270. Constituents of adrenal cortex and related substances. LXII. Partial synthesis of 11-dehydrocorticosterone, II, 271.

- Lardon, F. See Ruzicka, L.
- Lardy, H. A., and Phillips, P. H., inhibition of sperm respiration and reversibility of effects of metabolic inhibitors, III, 742. Inhibition of sperm glycolysis and reversibility of effects of metabolic inhibitors, III, 743. Effect of thyroxine and dinitrophenol on sperm metabolism, III, 827.
See also Boyer, P. D.
- Large, A. M. See Elman, R.
- Largent, E. J. See Machle, W.
- Larionov, V. T., shortening of moulting period in birds by exposure to light, III, 480.
- Lark-Horovitz, K., and Leng, H. R., testing enteric coatings, III, 178.
- Larkin, J. C., jun. See Stone, R. S.
- Larkin, V. de P. See De Sanctis, A. G.
- Larsell, O., and Dow, R. S., cerebellum, III, 308.
- Larsen, E. M., Fernelius, W. C., and Quill, L. L., concentration of hafnium; preparation of hafnium-free zirconia, I, 312.
- Larsen, E. S., igneous rocks of Highwood mountains, Montana. II. Extrusive rocks, I, 291.
and Buie, B. F., igneous rocks of Highwood mountains, Montana. V. Contact metamorphism, I, 291.
- Buie, B. F., Burgess, C. H., and Hurlbut, C. S., jun., igneous rocks of Highwood mountains, Montana. VI. Mineralogy. VII. Petrology, I, 291.
See also Keevil, N. B.
- Larsen, N. P. See Judd, J. R.
- Larsen, W. P. See Bellis, C. J.
- Larsh, J. E., transmission from mother to offspring of immunity against mouse cestode, *Hymenolepis nana*, var. *fraterna*, III, 71.
- Larson, C. L., treatment of experimental leptospirosis with serum, III, 356.
- Larson, C. P., and Bennett, R. J., symmetrical cortical necrosis of kidneys, III, 398.
and Lidbeck, W. L., rhabdomyosarcoma and other myocardial tumours, III, 660.
See also Dublin, W. B., and Snyder, G. A. C.
- Larson, E. E., acute pancreatitis, III, 328.
- Larson, P. S., and Haag, H. B., fate of nicotine in body. III. Methylated and demethylated derivatives of nicotine, III, 678.
See also Haag, H. B.
- Lashley, K. S., and Sperry, R. W., olfactory discrimination after destruction of anterior thalamic nuclei, III, 880.
- Lashof, T. W., electrical conductivity of lead chromate, I, 196.
- Laskaris, T. See Braun, A. C.
- Laskowski, M., oxygen consumption during histamine-histaminase reaction, III, 141.
- Lasznitzki, A., and Brewer, A. K., isotopic constitution of potassium in normal tissue and cancer from human subjects, III, 128.
and Woodhouse, D. L., formation of haemolymph nodes in rats treated with 1:2:5:6-dibenanthracene, III, 250.
- Lassen, S. See Geiger, E.
- Laszcower, M. See Andere, E.
- Laszlo, D. See Lewisohn, R.
- Laszt, L., effect of cerium chloride on sugar absorption of small intestines, III, 124.
Phosphate and sugar absorption from intestines, III, 654. Symmetrical skin disease in adrenalectomised rats cured by cozymase and nicotinamide, III, 666.
and Dalla Torre, L., relationship between sugar absorption from intestines and phosphorus metabolism, III, 654. Lactoflavin excretion in normal and adrenalectomised animals, III, 736.
- Dalla Torre, L., and Pittet, N., relationship between sugar absorption and phosphate metabolism, III, 654.
- Latham, A. See Sharpey-Schafer, E. P.
- Latham, O. See Davidson, W. S.
- Latner, A. L., low-pressure phase of blast, III, 307.
- Latsky, J. M., A.C.H. and Tuxford indices in nutritional assessment, III, 750.
- Lattin, B. See Tarnower, H.
- Latven, A. R. See Welch, A. D.
- Laubengayer, A. W., Branda, R. L., and Newkirk, A. E., progress in preparation and determination of properties of boron, I, 184.
and Finlay, G. R., donor-acceptor bonding. I. Etherates of boron trifluoride, I, 193.
and Weisz, R. S., hydrothermal study of equilibria in system alumina-water, I, 153.
See also Bauer, S. H.
- Lauchlan, A. D. E., and Page, J. E., modified calomel cell for pH measurements, I, 71.
- Laudermilk, J. D. See Woodford, A. O.
- Lane, M. von, superconductivity, I, 55. Current distribution in superconductors, I, 273.
- Lauener, P., and Maeder, E., effect of high-altitude flying and low barometric pressure chamber on whooping cough, III, 633.
- Lauer, W. M., and Moe, O., rearrangement of phenyl allyl ethers. VIII. Ethyl ρ - $\gamma\gamma$ -dimethylallyloxybenzoate, II, 205.
and Sanders, P. A., rearrangement of phenyl allyl ethers. VII. Isomeric ethyl ρ - α - and ρ -methylallyloxybenzoates, II, 194.
- Laufuer, S. See Tauber, H.
- Laufuer, S. T., interatrial septal defect, III, 541.
- Laufuer, M. A., ultracentrifugation of blood of normal and jaundice-diseased silkworms, III, 866.
See also Chambers, L. A.
- Laug, E. P., and Draize, J. H., percutaneous absorption of ammonium hydrogen sulphide and hydrogen sulphide, III, 347.
- Langier, H. See Blais, J. A., and Dugal, L. P.
- Lauridsen, J., and Eggers, H. E., carcinogenesis after multiple irritation, III, 747.
- Laurie, A. See Baird, E.
- Lauritsen, C. C. See Becker, R. A.
- Lanson, H. D., Golden, J. B., and Sevringshaus, E. L., normal endocrine gland weights of female rats of Sprague-Dawley strain throughout growth period and adult life, III, 21.
- Lautenschlager, C. L., and Bockmühl, M., active principle of thyroid gland, III, 107.
- Lanterbach, T. See Wessely, F. von.
- Lautsch, W., and Piazolo, G., oxidative degradation of halogen-substituted spruce-lignins, II, 247.
See also Freudenberg, K.
- Laval, Jean, crystalline diffusion of X-rays resulting from Bragg reflexions with change of frequency at thermal vibration planes, I, 53.
Elastic constants of crystals from X-ray studies of thermal agitation of atoms, I, 55.
Composition of X-rays scattered by a crystal subjected to thermal agitation, I, 250.
- Laval, Joseph, paresis of accommodation following sulphadiazine therapy, III, 470.
- Laves, F., and Wallbaum, H. J., influence of geometrical factors on stoichiometric formulae of metallic compounds illustrated by structure of KNa_4 , I, 82.
- Lavietes, P. H. See Dine, R. F.
- Lavin, G. I., and Hoagland, C. L., ultra-violet photomicrography of muscle, III, 793.
See also Goebel, W. F., and Havens, W. P.
- Lavine, T. F., all-glass burette system, I, 43.
- Lavollay, J., [potentiation of] adrenaline inhibition of isolated guinea-pig intestine [by flavones], III, 238.
and Neumann, J., activation by flavone derivatives of peroxidase oxidation of adrenaline, III, 840.
- Lavor, E. M., and Ferguson, F. F., reactions of lower organisms to the common sulphonamides, III, 507. Gross physiological reactions of lower organisms to p -amino-benzoic acid, III, 507.
See also Ferguson, F. F.
- Lavrentiev, V. N. See Grunberg, A. A.
- Law, A. G., root-tip smears following fixation with boiling water, III, 785.
- Law, L. W., bile acids and pulmonary tumour incidence in A strain mice, III, 569.
See also Woolley, G. W.
- Law, W. E., "anthiomaline" in lymphogranuloma inguinale, III, 761.
- Lawler, H. J., modification of Kahn test [for syphilis] for use with haemolysed blood, III, 285.
- Lawrence, B. J., and Plant, G., bleeding and blood-sugar levels in blood donors, III, 369.
- Lawrence, C. A., *in-vitro* effects of quinine, atebirin, and substituted acridine compounds on Gram-negative bacteria, III, 832.
and Klingel, H., effects of azosulphonamides on lysozyme, III, 830.
and Sprague, K. D., effects of sulphanilamide, sulphapyridine, sulphathiazole, and sulphamylguanidine on colon-typhoid-dysentery group, III, 673.
- Lawrence, C. H., and Werthesen, N. T., treatment of acne with orally administered oestrogens, III, 241.
- Lawrence, E. A. See Cecil, R. L.
- Lawrence, J. H. See Low-Bear, B. V. A., and Treadwell, A. de G.
- Lawrence, J. S., pernicious anaemia treated with pyloro-duodenal extract and liver in tablet form, III, 545.
See also Syvertson, J. T.
- Lawrence, B. D., gynaecomastia from deoxy-corticosterone acetate, III, 390. Globin zinc insulin, III, 882.
- Meyer, A., and Nevin, S., pathological changes in brain in fatal hypoglycaemia, III, 467.
and Oakley, W., pregnancy and diabetes, III, 47.
- Lawrie, N. R., excretion of phosphatase in faeces, III, 844.
- Laws, C. See Logue, R. B.
- Lawson, A. W., measurement of anomalous dispersion in opaque dielectrics, I, 265.
See also Goldman, J. E.
- Lawson, T. L., "pentamidine" in trypanosomiasis, III, 510.
- Lawson, W. See Dodds, E. C.
- Lawton, A. H., Sweeney, T. R., and Dudley, H. C., toxicology of acrylonitrile (vinyl cyanide). III. Determination of thiocyanates in blood and urine, III, 835.
- Layne, J. A., and Baker, A. B., hypoglycaemic cerebral damage in diabetics, III, 383.
- Layout, W. B. See Kuzell, W. C.
- Lazard, E. M., sterilisation procedures in women, III, 649.
- Lazarev, B. G., and Galkin, A. A., variation of superconductivity of tin under non-uniform tension, I, 301.
- Lazareva, E. N. See Pakendorf, K.
- Lazarow, A., particulate glycogen: submicroscopic component of guinea-pig liver cell; its significance in glycogen storage and regulation of blood-sugar, III, 397.
- Lazarus, S. See Bell, G. H.
- Lazere, B. See Hines, H. M.
- Lea, D. E., and Catcheside, D. G., induction by irradiation of chromosome aberrations in *Tradescantia*, III, 156.
See also Catcheside, D. G.
- Leach, B. E. See Forbes, J. C.
- Leach, C. N., and Johnson, N. H., effect of prolonged storage on antigenicity of chloroform-inactivated canine rabies vaccine, III, 288.
- Leach, C. W. See Miller, J. J., jun.
- Leaf, B., and Wall, F. T., separation of gas mixtures by thermal diffusion, I, 103.
- Leake, C. D., and Marsh, D. F., action of ordinary war gases, III, 268.
- Leaman, W. G., jun. See Getter, W. I.
- Learnmouth, J. R., reflex vasodilation in surgery, III, 377.
and Richards, R. L., spinal origin of vasoconstrictor fibres in arm of man, III, 728.
- Learner, N., and Brown, C. L., ectodermal disorders in chronic hypoparathyroidism, III, 735.
- Leathart, P. W., [reflex role of vagus] common cause of diarrhoea, vomiting, and dehydration in infants, III, 873.

- Leathem, J. H., effect of testosterone propionate on spermatogenesis in hypophysectomised rats following injection of gonadotropins, III, 33.
 and Abarbanel, A. R., purification of equine gonadotropin and its effect on appearance of antigenadotropic substances in human sera, III, 812.
 and Brent, B. J., influence of pregnenolone and pregnenolone on spermatogenesis in hypophysectomised adult rats, III, 891.
 and Mills, E. J., jun., influence of normal male urine gonadotropin on spermatogenesis in hypophysectomised mature and immature rats, III, 32.
 See also Allison, J. B., Drill, V. A., and Levin, L.
 Leathem, W. W. See Hadley, F. P.
 Lebeduska, J., and Pidra, J., antiseptic action of vapours of solids, III, 144.
 Lebedinski, V. V., and Gurin, M. M., iridium sulphitochlorides, I, 68. Iridium amminosulphite compounds, I, 97.
 Lebenzon, E. G. See Magat, M. A.
 Leblond, C. P., entry and loss of iodine in thyroid, III, 22. Localisation of newly administered iodine in thyroid gland as indicated by radio-iodine, III, 225. Detoxication of progesterone derivatives in liver, III, 242.
 Albert, S., and Selye, H., action of steroids on hypophysis of thyroidectomised rat, III, 321.
 See also Leblond, G.
 Leblond, G., and Leblond, C. P., correction of milk deficiency symptoms, III, 40.
 Lebowich, R. J., comparison of sulphanilamide and acetylated derivative of 4:4'-diamino-diphenyl sulphone hydrochloride in treatment of experimental β -haemolytic streptococcus pericarditis in rabbit, III, 906.
 See also Ackebauer, C. F.
 Le Brocq, L. F., thermostatically controlled glass electrode apparatus, I, 287.
 Lebrón, A. P. See under Pomales-Lebrón, A.
 Lecamp, M., effect of amino-acids on regeneration, III, 223.
 Lechner, R., utilisation of pentoses in biological synthesis of proteins. V. Propagation of *Torula utilis* in arabinose, rhamnose, and glycuronic acid. VI. Growth of *Torula utilis* on xylose and galactose, III, 685, 845.
 Lechycka, M. See Clarke, M. F.
 Le Claire, C. D. See Koelsch, C. F.
 Lecocq, R., richness of diet in provitamin-A and production of experimental rickets in guinea-pigs, III, 187. Valuation of sources of calcium in production of experimental rickets, III, 412.
 Lederer, M., and Rosenblatt, P., death during sulphathiazole therapy, III, 265.
 See also Mandelbaum, H.
 Lederle, P., determination of phosphoric acid by weighing magnesium ammonium phosphate, I, 284.
 Ledingham, I. C. See Wells, G. P.
 Lee, B. K. See Boyd, E. M.
 Lee, C. H., Kwoh, T. H., and Sun, T. P., ascorbic acid contents of Chungking fruits and vegetables, III, 667.
 See also Kwoh, T. H.
 Lee, E. S. See Acheson, G. H.
 Lee, F. H., apparent ionic volume in infinitely dilute solutions, I, 198.
 and Sie, C. S., apparent molal heat capacities of salts in infinitely dilute solutions, I, 198. Apparent ionic volume in infinitely dilute solutions, I, 274.
 and Tai, Y. K., entropy of hydration of gaseous ions, I, 202. Heat of hydration of gaseous ions, I, 203. Absolute values of entropies of aqueous ions, I, 229.
 Lee, H. M. See Powell, C. E.
 Lee, M., and Hoxworth, P. I., isotonic aqueous iodine solution as skin antiseptic, III, 343.
 See also Richter, D.
- Lee, R. C., heat production of rabbit at 28° as affected by previous adaptation to temperatures between 10° and 31°, III, 44. and Silverman, L., apparatus for measuring air flow during inspiration, III, 855.
 Lee, R. E., colour changes of sea robin (*Prionotus strigatus*) with reference to erythrophores [role of pituitary and nerves], III, 552. Anatomy and histology of swordfish pituitary, III, 617.
 Lee, S. W., Wallace, J. H., jun., Hand, W. C., and Hannay, N. B., volumetric determination of sulphates; tetrahydroxybenzoquinone as an external indicator, I, 41.
 Lee, W. W. See McBain, J. W.
 Leech, P. See Jones, F. W.
 Leedham-Green, J. C., and Evans, Winston, myositis tropica, III, 793.
 Lees, W. M. See Vaughn, A. M.
 Leete, H. M., diphtheria immunisation of adults, III, 435.
 Lefèvre, C., and Rangier, M., thioglyoxaline in blood serum, III, 459.
 Le Feuvre, F. A., effect of dicumarol [3:3'-methylenebis-(4-hydroxycoumarin)] on prothrombin and coagulation times of blood, III, 85. Thrombo-angiitis obliterans, III, 94.
 Lefkowitz, L. See Taub, J.
 Le Galley, D. P., and Harrisson, J. W. E., improvement of colour vision by vitamin intake, III, 733.
 Legge, J. W., methaemoglobin formation, III, 371.
 See also Lemberg, R.
 Legere, H. See Schwartz, S. O.
 Legoux, C., alkali and alkaline-earth phosphides, I, 22.
 Le Grand, Y., accommodation of eye in nocturnal vision, III, 312.
 Lehmann, E. See Rapaport, H. G.
 Lehman, E. P. See Mason, W. R.
 Lehman, R. A., and Aitken, T., determination of demerol (hydrochloride of ethyl 4-phenyl-1-methylpiperidine-4-carboxylate) in urine; its excretion in man, III, 676.
 and Sprout, R. C., sodium bismuth triglycollamate, II, 55.
 See also De Graff, A. C.
 Lehman, R. W. See Baxter, J. G.
 Lehmann, E., diene syntheses. V., II, 232.
 Lehmann, F. E., test of mitosis inhibiting substances on *Tubifex* eggs, III, 758.
 Lehmann, G., Ambrose, A. M., and Knoefel, P. K., effects of nitrate esters of xanthine derivatives, III, 344.
 See also Knoefel, P. K.
 Lehmann, H., effect of enzyme from kidney on solubility of calcium phosphate, III, 56.
 Lehmann, J., coumarin and dicoumarin derivatives and prothrombin level, III, 713.
 Lehmensick, R., intestinal bacteria of medicinal leech, III, 145.
 Lehninger, A. L., 1-carbamyl-5-methylpyrazole-3-carboxylic acid, II, 105. Metabolism of acetopyruvic acid, III, 671. Identity of a carbonyl compound isolated from ox liver, III, 815.
 Lehrer, E., infra-red spectrograph with means for direct registration of absorption ratio and with linear wave-length scale, I, 102.
 Lehrfeld, L., and Brav, S. S., angioid streaking of retina associated with pseudoxanthoma elasticum in siblings, III, 106.
 Lehrman, L., nature of fatty acids associated with starch; adsorption of palmitic acid by potato and defatted corn and rice starches, III, 150.
 and Mandel, I., absence of coprecipitation of barium ion with chlorides of silver group and sulphides of copper and tin groups in presence of ammonium ion, I, 225.
 Lehtimaki, S. See Palomaa, M. H.
 Leiboff, S. L., determination of total cholesterol and cholesterol esters in blood, III, 228.
 Leibovitz, A. See Yannet, H.
 Leibowitz, J., and Hestrin, S., direct fermentation of maltose by yeast. II, III, 58.
- Leibowitz, S., distinctive odour in patients receiving sulphanilamide, III, 195.
 Leicester, H. M., new Almaden [mercury] mine, the first chemical industry in California I, 268.
 Leichsenring, J. M., and Biester, A., blood picture in haemorrhagic anaemia, III, 369.
 Leichtentritt, B. See Freund, H. A., and Jacobson, S. D.
 Leifer, L. See Mishulow, L.
 Leifer, W. See Turell, R.
 Leigh, A. D., defects of smell after head injury III, 237.
 Leigh, E. See Hodgson, H. H.
 Leigh-Smith, A., and Minder, W., experimental evidence of existence of element 85 in thorium family, I, 47.
 Leighton, P. A., and Volman, D. H., absorption tube for investigation of gases at low pressures, I, 187.
 See also Blaedel, W. J., and Smith, R. N.
 Leighty, J. A. See Matton, W. E.
 Leikind, M. C. See Hitchens, A. P.
 Leikind, S. S., Maurmeyer, R., and Cutler, M., detection and semi-quantitative estimation of group I cations, I, 100.
 Lein, A., fixation of radioactive iodine by rabbit thyroid, III, 881.
 Leinbrock, A., nitrogen metabolism of *B. coli*. II. Differences between strongly fermenting and weakly fermenting *B. coli* in aerobic utilisation of nitrogenous nutrients with and without carbohydrate, III, 145.
 Leinfelder, P. J., and Black, N. M., experimental transposition of extraocular muscles in monkeys, III, 17.
 Leininger, C. R. See Beaton, L. E.
 Leinoff, H. D., heart injury from non-penetrating chest injuries, III, 8.
 Leipunskaya, D. I. See Kargin, V. A.
 Leipunski, O. I., and Frank, P. E., behaviour of thixotropic colloids under pressure. I. Setting of iron hydroxide, I, 180.
 See also Bobolev, V. K.
 Leiter, E., effect of heparin on retrograde blood flow, III, 302.
 Leiter, J., and Shear, M. J., production of tumours in mice with tars from city air dusts, III, 250. Quantitative experiments on production of subcutaneous tumours in strain A mice with marginal doses of 3:4-benzpyrene, III, 748.
 Shear, M. J., and Shimkin, M. B., production of subcutaneous sarcomas in mice with tars extracted from atmospheric dusts, III, 250.
 Leiter, L., and Eichelberger, L., renin: duration of pressor effect of large doses in conscious normal and renally abnormal dogs, III, 380. Renin and production of cardiac and gastrointestinal haemorrhages and necroses [in dog], III, 550.
 Leloir, L. F. See Muñoz, J. M.
 Lemberg, R., Holden, H. F., Legge, J. W., and Lockwood, W. H., sulphhaemoglobin, III, 160.
 and Legge, J. W., liver-catalase, III, 519.
 Lemere, F., cortical energy production in psychoses, III, 100.
 Voegtl, W. L., Broz, W. R., O'Hollaren, P., and Tupper, W. E., conditioned reflex treatment of chronic alcoholism, III, 590.
 See also Voegtl, W. L.
 Lemlet, J. See Garrett, A. B.
 Lemons, J. F. [with Felsing, W. A.], heats of vaporisation of hexanes, I, 149.
 Lenander, H. E. See Constant, F. W.
 Lendrum, A. C. See Lominski, I.
 Leng, H. R. See Lark-Horovitz, K.
 Lengyel, J., relationship of cells and fibrils of connective tissue in tissue cultures grown on collagenic medium, III, 4.
 Lennartz, T. See Wagner-Jauregg, T.
 Lennstrand, A., oxidation-reduction and phosphorylation processes regulated by cozymase and their significance for stability and synthesis of cozymase, III, 351.
 See also Lindahl, P. E.

- Lennette, E. H., susceptibility of Syrian hamster to viruses of St. Louis and Japanese-B encephalitis, III, 608.
- Lennie, R. A., splenic and renal aneurysms complicating pregnancy, III, 94.
- Lennox, W. G., epilepsy, III, 467, 638.
See also Nims, L. F.
- Lenormant, C., surgical use of chemotherapy, III, 831.
- Lenzner, A. S. See Osgood, H.
- Leon, J. See Fox, T.
- Leonard, L. T., assembly for use in testing of cultures of *Rhizobia*, III, 918.
- Leonard, N. J., and Elderfield, R. C., *Alstonia* alkaloids. I. Degradation of alstonine to β -carboline bases and reduction of tetrahydroalstonine with sodium and butyl alcohol, II, 112.
- Leonard, O. A. See Sheets, O.
- Leonard, S. L., partial maintenance of adrenal weight in hypophysectomised immature male rats by testosterone injections, III, 322. Stimulation of mammary glands in hypophysectomised rats by oestrogen and testosterone, III, 741.
- and Reece, R. P., failure of steroid hormones to induce mammary growth in hypophysectomised rats, III, 174.
See also Smithcors, J. F.
- Leonards, J. R., and Free, A. H., effect of pantothenic acid on rate of intestinal absorption of galactose in the rat, III, 500.
See also Free, A. H.
- Leonhard, M. See Dilthey, W.
- Leonian, L. H., and Lilly, V. G., vitamin synthesis by a yeast converted from heterotrophic into autotrophic habit, III, 274. "Unknown factor" in growth of *Saccharomyces cerevisiae*, III, 600. Induced autotrophism in yeast, III, 685.
- Leontieva, A., linear speed of crystallisation of potassium, sodium, and lithium disilicates, I, 57.
- Leopold, R. S. See Williams, Jonathan W.
- Le Page, G. A., and Umbreit, W. W., phosphorylated carbohydrate esters in autotrophic bacteria, III, 602. Occurrence of adenosine 3-triphosphate in autotrophic bacteria, III, 687.
See also Vogler, K. G.
- Lepart, O. L. See Shuart, C. E.
- Lepheire, G., comparison of direct diazo-reaction [for bilirubin] by photo-electric colorimeter, 3 test-tube method, and oxidation test in xanthochromic spinal fluid, III, 235.
- Lepin, L., and Bromberg, A., coagulation of hydrophobic sols by electrolyte mixtures. V. Coagulation of negative silver iodide sol by ions (Hg^{+}) reacting with the micelle, I, 127.
- Lepine, P., Levaditi, J. C., and Giuntini, J., density of viruses and proteins by comparative ultracentrifuging in heavy water, III, 426.
- Lepkowsky, S., and Kratzer, F. H., pyridoxine deficiency in chicks, III, 500.
- and Parsons, D., effect of pyridoxine deficiency in the rat on catalase activity of its tissues, III, 825.
- Roboz, E., and Haagen-Smit, A. J., role of xanthenic acid in tryptophan metabolism of pyridoxine-deficient rats, III, 827.
See also Bird, F. H.
- Leprince-Ringuet, L., Nageotte, E., Gorodetzky, S., and Richard-Foy, R., direct mass determination of the mesotron by means of elastic collision, I, 270.
- Nageotte, E., and Lherrier, M., preponderance of positively charged particles in cosmic-ray spectrum, I, 47.
- Lerman, J., endocrine action of thyroglobulin antibodies, III, 322.
- and Stebbins, H. D., pituitary type of myxoedema, III, 239.
- Lerner, A. See Barnes, R. H.
- Le Rosen, A. L., standardisation of chromatographic analysis, II, 51.
- and Zechmeister, L., carotenoid pigments of fruit of *Celastrus scandens*, L., III, 540.
- Le Rosen, A. L. See also Zechmeister, L.
- Le Roy, D. J., and Steacie, E. W. R., cadmium ($^{3}P_1$)-photosensitised reactions of lower olefines, I, 66. Mercury-photosensitised reactions of ethylene at high temperatures, I, 66.
See also Steacie, E. W. R.
- Lescher, F. G., grave anaemias in pregnancy and puerperium, III, 226.
- Lesser, A. J., local anaesthesia, III, 676. Duration of local anaesthesia in relation to concentrations of procaine and adrenaline, III, 763.
- Lessesne, S. D. [with Henze, H. R.], utilisation of alkoxy-ketones in synthesis of quinolines by Pfitzinger reaction. II, II, 45.
- Leshin, N. See Lewy, A.
- Leslie, A., bedside test for latent jaundice, III, 179. Alkaptonuria with hyperuricæmia, III, 506.
- Leslie, J. D., graphical interconversions for multicomponent systems, I, 227.
- Leslie, P. H., bacteriological classification of principal cultures used in rat and mouse control in Great Britain, III, 437.
- Leslie, W. B. See Henze, H. R.
- Lesnick, G. See Sofier, L. J.
- Lespinasse, V. See Lespinasse, V. D.
- Lespinasse, V. D., and Lespinasse, V., studies of kidney function and urinary extravasation, III, 893.
- Lesser, M. A., treatment of angina pectoris with testosterone propionate, III, 868.
- Lester, D. See Bergmann, W.
- Letonoff, T. V. See Kety, S. S.
- Lettré, H., isomorphism of organic compounds. V. Nitrobenzoic acids and substituted benzoic acids, II, 231.
and Albrecht, M., mitotic poisoning by narcotine, III, 3. Effect of β -phenylethylamine [derivatives] on cells grown *in vitro*, III, 80.
and Fernholz, M. E., preparation of flavins, II, 281.
- Leuchs, H., and Rack, F., strychnine alkaloids. CX. Strychnone and ψ -strychnone as by-products of the preparation of ψ -strychnine. CXI. Transformations of dihydro- ψ -strychnine, II, 312.
and Teuber, H. J., *Strychnos* alkaloids. CXVI. Brucine-9-acetic acid and -9-nitrile, II, 18.
- Leuchtenberger, C. See Lewisohn, R.
- Leuchtenberger, R. See Lewisohn, R.
- Leuthardt, F., urea from glutamine. III., III, 260. Formation of hippuric acid, III, 669.
and Glasson, B., biological synthesis of urea, III, 757.
- Lev, M., and Strauss, S., stenosis of [pulmonary] infundibulum, III, 154.
- Leva, E., and Rapoport, S., determination of acid-soluble glycerophosphoric acid in liver, III, 856.
See also Rapoport, S.
- Levaditi, J. C. See Lépine, P.
- Levcowich, T., and Batchelder, E. L., ascorbic acid excretion at known levels of intake as related to capillary resistance, dietary estimates, and human requirements, III, 191.
- Levine, G., and Miller, L. C., acromegalic gigantism without cardiac enlargement, III, 112.
- Levert, E. L. See Flax, L. J.
- Leverton, R. M., and Marsh, A. G., iron metabolism and requirement of young women, III, 186.
See also McKay, H.
- Levi, I., Hawkins, W. L., and Hibbert, H., reactions relating to carbohydrates and polysaccharides. LXV. Fractionation of partly methylated glucosides. LXVI. Structure of dextran synthesised by action of *Leuconostoc mesenteroides* on sucrose, II, 25.
See also Evans, T. H., and West, E.
- Levin, A. V. See Evans, T. C.
- Levin, E. See Dokunichin, N.
- Levin, I. M., Hoffman, S. J., Koransky, D. S., Richter, I. B., and Gumbiner, B., massive arsenotherapy for syphilis in children, III, 678.
- Levin, L., rapid tube feeding of rats, III, 615.
- Crafts, R. C., and Leathem, J. H., effects of adrenalectomy and replacement therapy on serum-protein levels of cat, III, 109. Adrenals and serum-protein levels in cat, III, 238.
- Moore, D. H., Sevringshaus, A. E., and Smelser, G. K., ultracentrifugal sedimentation of thyrotropic and gonadotropic principles of crude pituitary extracts, III, 170.
- Levin, M., diplopia in narcolepsy, III, 804.
- Levin, M. L., Kress, L. C., and Goldstein, Hyman, syphilis and cancer, III, 129.
- Levin, N., and Hartung, W. H., amino-alcohols. XI. Arylglyoxylohydroxamyl chlorides, II, 35.
- Levin, O. L., and Behrman, H. T., bracelet dermatitis, III, 269.
- Levin, R. H., dehydration of cholesterol in liquid sulphur dioxide, II, 236.
See also Chakravorty, P. N.
- Levina, R. J., and Kagan, J. B., synthesis of ethylenic and saturated hydrocarbons of iso-structure with a quaternary carbon atom. II. Reaction between β -bromo- α -dimethyl- Δ^{γ} -pentene and magnesium alkyl halides, II, 77.
- Kulikov, S. G., and Parschikov, P. G., reaction of Grignard reagents with ketone acetals, II, 90.
- and Panov, E. M., isomerisation of unsaturated hydrocarbons in presence of oxides of metals. VI. Isomerisation of δ -phenyl- Δ^{α} -butinene in presence of chromic oxide, II, 86.
- and Schtscheglova, N. A., isomerisation of unsaturated hydrocarbons in presence of oxides of metals. V. Isomerisation of δ -phenyl- Δ^{α} -butene and ϵ -phenyl- Δ^{α} -pentene in presence of aluminium and chromium oxide, II, 86.
- Levine, A. S., and Fellers, C. R., inhibiting effect of acetic acid on micro-organisms in presence of sodium chloride and sucrose, III, 204.
See also Tarkow, L.
- Levine, B., use of hexene-ol in burns of limited areas, III, 592.
- Levine, J. See Matchett, J. R.
- Levine, Max, effect of concentration of dyes on differentiation of enteric bacteria on eosin-methylene-blue agar, III, 919.
See also Hertz, M. R., and Vaughn, R. H.
- Levine, Melvin, Foster, J. F., and Hixon, R. M., structure of dextrans isolated from maize syrup, II, 57.
- Levine, Milton, and State, D., reactions following plasma transfusions, III, 457.
See also Hoyt, R. E., Kabat, H., and Siedentopf, H.
- Levine, M. I., and Sackett, M. F., possibility of artificial sensitisation to tuberculin, III, 439.
- Levine, M. N. See Geddes, W. F.
- Levine, P., structure of Skita's "9:10-dihydroxy-decahydrophenanthrene," II, 129. Pathogenesis of foetal erythroblastosis [and Rh-factor], III, 453.
See also Linstead, R. P., and Vogel, P.
- Levine, P. P., effect of sulphapyridine on experimental avian coccidiosis, III, 341.
- Levine, S., and Gordon, G. B., complete biliary obstruction complicating duodenal ulcer; perforation of ulcer followed by immediate release of the obstruction, III, 248.
See also Freedman, P.
- Levine, S. A. See Gelfman, R.
- Levine, S. Z. See Dann, M.
- Levine, V., and McNabb, W. M., iodometric semimicro-determination of arsenic in sodium cacodylate and cacodylic acid, II, 148.
- Levine, V. E. See Sachs, A.

- Levinson, J. P., and Essex, H. E., effect of shock on small blood vessels of ear of rabbit, III, 870.
- Levinson, S. A. See Limarzi, L. R.
- Levinson, S. O. See Neuweit, F.
- Levinthal, W. M., aetiology of rheumatism, III, 777.
- Levitin, N. I. See Clark, W. G.
- Levitsch, B. See Landau, L.
- Levitsch, V. G., and Frumkin, A., ohmic resistance of local elements in solution of metals in acids, I, 182.
- Levitz, M., and Bogert, M. T., dehydrogenation. III. Dehydrogenation of a methylpiran, II, 296.
- Levy, D. S. See Scherlis, S.
- Levy, H., and Boas, E. P., angina pectoris and syndrome of peptic ulcer, III, 867.
- Levy, J. S., and Siler, K. A., effect of oral administration of amino-acid mixture on gastric acidity, III, 176.
- Levy, M., and Palmer, A. H., benzoylation and resolution of alanine, II, 121.
- Levy, R. L., paroxysmal auricular fibrillation and flutter [without signs of organic cardiac disease], III, 549.
- See also Shillito, F. H.
- Levy, S. See Lurie, L. A.
- Levy, S. R. See Haven, F. L., and Hunter, F. E.
- Levy-Hochman, S. See Sulman, F.
- Lew, B. W., and Gortner, R. A., gums from carob bean, *Ceratonia siliqua*, L., III, 779.
- Lew, W. See Bloomfield, A. L.
- Le Winn, E. B., and Augerman, I., fat metabolism in acne vulgaris, III, 260.
- Lewis, A. A., uses of diethylstilboestrol in dairy cattle, III, 478.
- Gomez, E. T., and Turner, C. W., mammary gland development with mammogen I in castrate and hypophysectomised rat, III, 174.
- and Turner, C. W., effect of stilboestrol on mammary gland of mouse, rat, rabbit, and goat, III, 171. Effect of diethylstilboestrol on mammary gland development in dairy animals, III, 326.
- See also Trentin, J. J.
- Lewis, A. E. See Lewis, J. J.
- Lewis, B., and Elbe, G. von, stability and structure of burner flames, I, 131.
- Lewis, C. E. See Whitmore, F. C.
- Lewis, D., physiology of incompatibility in plants. II. *Linum grandiflorum*, III, 697.
- Lewis, D. W. See Kharasch, M. S.
- Lewis, F. B. See Coates, H., and Cook, A. H.
- Lewis, F. J. W. See Ormiston, G.
- Lewis, G. M., and Hopper, M. E., concurrent, combined, and consecutive fungous infections of skin, III, 521.
- Lewis, G. N., and Bigeleisen, J., orientation of molecules produced photochemically in rigid solvents, I, 218. Methylene-blue and other indicators in general acids; acidity function, I, 257. Initial step in action of acids on tetra-arylyhydrazines, II, 128.
- Bigeleisen, J., Goldschmid, O., and Magel, T. T., dimeric and other forms of methylene-blue; absorption and fluorescence of the pure monomer, I, 248.
- and Lipkin, D., reversible photochemical processes in rigid media; dissociation of organic molecules into radicals and ions, I, 133.
- Lewis, H. A. See Goldblatt, H.
- Lewis, H. B., proteins in nutrition, III, 573.
- See also Darby, W. J.
- Lewis, I. M., genus *Spirillum* Ehbg. with reference to cell inclusions and chromidial theory, III, 212. Cytology of bacteria, III, 431.
- Lewis, J. J., Lewis, A. E., and Hall, V. E., influence of inspiration on heart rate, III, 717.
- Lewis, J. M., Bodansky, O., Falk, K. G., and McGuire, G., vitamin-A requirements in the rat; relation of vitamin-A intake to growth and to concentration of vitamin-A in blood plasma, liver, and retina, III, 187.
- Lewis, J. S., Storwick, C. A., and Hauck, H. M., renal threshold for ascorbic acid in twelve normal adults: state of tissue reserves of subjects on intake of ascorbic acid approximating to daily allowance, III, 411.
- Lewis, K. H., Bedell, M., and Rettger, L. F., non-sporulating anaerobic bacteria of intestinal tract. II. Growth-facilitating factors, III, 210.
- Ham, W. E., and Jensen, W. I., influence of vitamins and coliform bacteria on sulphaguanidine tolerance by young chickens, III, 830.
- and Rettger, L. F., non-sporulating anaerobic bacteria of intestinal tract. I. Occurrence and taxonomic relationships, III, 210.
- See also West, R. A.
- Lewis, L. See Benson, R. A.
- Lewis, L. A., and McCullagh, E. P., carbohydrate metabolism of animals treated with methyltestosterone and testosterone propionate, III, 122.
- See also Edelmann, A., Hartman, F. A., McCullagh, E. P., and Smith, D. E.
- Lewis, M. T., agar medium for *Drosophila* cultures, III, 363.
- Lewis, N. See Toomey, J. A.
- Lewis, P. M., angiomas of retinae, III, 878.
- Lewis, R. A. See Thorn, G. W.
- Lewis, R. C., and Duval, A. M., accuracy of closed-circuit bedside method and open-circuit chamber procedure for determination of basal metabolism, III, 904.
- Duval, A. M., and Iliff, A., standards for basal metabolism of children 2 to 15 years of age, III, 756.
- Duval, A. M., Iliff, A., and Kinsman, G. M., effect of change of altitude on corporcular constants, III, 710. Effect of change of altitude on blood in man, III, 710. Effect of change of altitude on basal metabolism in man, III, 722.
- Lewis, B. N., and Nickerson, N. D., prolonged adrenaline hypertension and subsequent circulatory failure, III, 389.
- Lewis, S. D., and Mandelbaum, J., achromatopsia, III, 878.
- Lewis-Fanning, E., and Myers, M., prognostic value of blood sedimentation rate in pulmonary tuberculosis, III, 371.
- Lewisohn, R., Leuchtenberger, C., Leuchtenberger, R., Laszlo, D., and Dische, Z., influence of a polished rice diet on spontaneous mammary cancers in mice treated with yeast extract, III, 569. Presence in grains of factors inhibiting tumour growth, III, 897. Treatment of spontaneous breast cancers in mice with pearl barley, III, 897.
- Leuchtenberger, R., and Laszlo, D., spleen extract in treatment of transplanted and spontaneous malignant tumours in mice, III, 491.
- Lewison, E. F., clinical value of serum-amylase test, III, 715.
- Lewy, A., and Leshin, N., functional examination of hearing, III, 473.
- Leys, D., spinal atrophic paralysis, III, 97.
- Leyva, J. P. See Smith, H. H.
- Lheriot, M. See Leprinse-Ringuet, L.
- Li, C. H., pituitary lactogenic hormone. VIII. Diffusion and viscosity measurements. IX. Content of sulphur-containing amino-acids, III, 324, 737.
- Evans, H. M., and Simpson, M. E., pituitary lactogenic hormone. VII. Isolation, III, 324. Adrenocorticotropic hormone, III, 886.
- and White, (Miss) C. F., kinetics of hypoiodite decomposition, I, 204.
- See also Fraenkel-Conrat, H., Marx, W., and Simpson, M. E.
- Li, C. Y., genesis of ore deposits of S.E. Maine, I, 292.
- Li, L., Lin, K. H., Huang, Y. T., and Huang, A. I. L., amino-acids and their derivatives. VI. Synthesis of α -amino- α -ethylvaleric acid, II, 218.
- See also Huang, Y. T.
- Li, S. T., calculations of univalent ionic radii and ionic refractions, I, 194.
- Li, T. See Kindler, K.
- Liandrât, G., and Sator, A., Winther's photochemical storage cell, I, 133.
- Liang, C. C. See Adolph, W. H.
- Libbey, F. W., Oregon's mineral industries and mineral resources, I, 290.
- Libby, R. L., and Joyner, A. L., action of sulphathiazole on colon-typhoid-dysenteric group of organisms, III, 133.
- Libby, W. F., vibrational frequencies of isotopic water molecules; equilibria with isotopic hydrogens, I, 175.
- Liberzon, W. T., and Strauss, Hans, electroencephalographic studies: slow activity during hyperventilation in relation to age, III, 637.
- Libet, B. See Elliott, K. A. C.
- Lichstein, H. C., and Snyder, M. L., inhibition of spreading growth of *proteus* and other bacteria to permit isolation of associated streptococci, III, 437.
- See also Snyder, M. L.
- Lichtenstein, L., and Jaffe, H. L., fibrous dysplasia of bone, III, 78. Chondrosarcoma of bone, III, 898.
- Lichtman, V. I., and Rebinder, P., effect of glide-plane orientation in single-crystals of tin on their adsorption-promoted deformation, I, 84.
- See also Rebinder, P.
- Lichty, J. A., jun., and Anderson, G. K., streptococcal antifibrinolysin in newborn infants, III, 438.
- Baum, W. S., and Katsampes, C. P., humoral antibodies for *Staphylococcus aureus* in infants and their mothers, III, 692.
- and Katsampes, C. P., determination of staphylococcal antitoxin and anticapsular agglutinin using capillary blood, III, 922.
- Lichty, L. D., chick-embryo diluter versus phosphates-egg yolk buffer in artificial insemination of cows, III, 890.
- Lickermann, N. See Asher, L.
- Lidbeck, W. L. See Larson, C. P.
- Liddell, R. W., King, C. G., and Beal, G. D., constituents of cascara sagrada. IV. Aloë-emodin, chrysophanic acid, and emodin, III, 196.
- Lieb, C. W. See Chapman, G. H.
- Lieber, M. M. See Goldburgh, H. L.
- Lieberman, S., Chang, F. C., Barusch, M. R., and Noller, C. R., saponins and sapogenins. XX. Betherogenin and trillogenin, saponins from *Trillium erectum*, II, 99.
- See also Dobriner, K.
- Liebermann, A. T., myasthenia gravis in child of 5 years, III, 635.
- Liebhafsky, H. A. See Balis, E. W., and Winslow, E. H.
- Liebling, J., and Schmitz, H. E., colostrum as source of diphtheria antitoxin in actively immunised pregnant mothers, III, 689.
- Liebman, S., model of visual pathways, III, 20.
- See also Putnam, T. J.
- Liebmann, E., sexual reproduction and regeneration in Oligochaetes, III, 738.
- Liebmann, J. See Ensworth, H. K.
- Liebow, A. A. See McFarland, W. J.
- Liem, H. T., determinations [of metals] with chinosol, I, 137.
- Lieneweg, F., temperature correction devices in ion concentration measurements, I, 63, 131. Automatic electrochemical determination of concentration, I, 234.
- Liesegang, S., cloud chamber investigations with hard secondary radiation from cosmic rays, I, 215.
- Lieser, T., "water-soluble" cellulose, I, 15. Micellar theory of cellulose, II, 357.
- Lieth, P., absorption of sulphur after application of thiourubrol to the skin, III, 674.
- Lifschitz, I., optical behaviour of non-ideal crystalline lattices in the infra-red, I, 147. Stability of principal periodic orbits in theory of primary cosmic rays, I, 191.
- Liggett, R. W. See Arnold, R. T.

- Light, A. E., and Clarke, M. F., use of *Lactobacillus casei* in microbiological assays, III, 500.
- Light, G., Sweet, W. H., Livingstone, H., and Engel, R., neurological changes following spinal anaesthesia, III, 420.
- Light, R. F., Cracas, L. J., Olcott, C. T., and Frey, C. N., inhibition of symbiotic synthesis of vitamin-B complex factors by sulphonamides, III, 407.
- Likoff, W. B. See Meranze, D. R., and Schneeberg, N. G.
- Likov, A. V., and Brenner, M. Z., determining the heat of sorption, I, 129.
- Lilek, E. F. See Schultz, M. L.
- Lilienfeld, A. See Tanney, A. D.
- Lilienthal, J. L., jun. See Harvey, A. M.
- Lilleland, O., and Brown, J. G., potassium nutrition of fruit trees, III, 534. Phosphate nutrition of fruit trees. IV. Phosphate content of peach leaves from 130 orchards in California, III, 613.
- Lillevik, H. A., and Geddes, W. F., death by asphyxiation in a grain elevator bin containing flax seed, III, 837.
- Lillie, R. D., polychrome methylene-blue. III. Alkali methods of polychroming, III, 368. Giemsa stain from eosin and methylene-blue, III, 709.
- See also Smith, M. I.
- Lilly, F. G. See Leonian, L. H.
- Lima, A. O. See Greco, J. B.
- Limarzi, L. R., Jones, R. M., Paul, J. T. and Poncher, H. G., sternal marrow in Banti's syndrome and other splenomegalic states; effect of splenectomy, III, 711.
- and Levinson, S. A., undescribed type of erythropoiesis observed in human sternal marrow, III, 861.
- See also Poncher, H. G.
- Lin, K. H., Huang, Y. T., and Kang, S., amino-acids and their derivatives. V. Synthesis of α -amino- α -methylbutyric acid and α -amino- α -isopropylbutyric acid, II, 218.
- See also Huang, Y. T., and Li, L.
- Lin, M. C. See Huang, Y. T.
- Lincoln, R. E. See Gowen, J. W.
- Lind, C. J., and Wilson, P. W., nitrogen fixation by *Azotobacter* in association with other bacteria, III, 207. Carbon monoxide inhibition of nitrogen fixation by *Azotobacter*, III, 523.
- See also Wilson, P. W.
- Lindau, P. E., physiology of form generation in development of sea urchins, III, 155. Cyanide-resistant respiration of sea-urchin's eggs, III, 413.
- and Lennstrand, A., cozymase in amphibian development, III, 599.
- Lindahl, W. W. See Bargen, J. A.
- Lindberg, H. A. See Barker, M. H.
- Lindberg, O., carbohydrate metabolism and acid formation in fertilisation of sea-urchin ova, III, 887.
- Lindeman, V. F., oxygen consumption of vertebrate retina, with reference to nucleo-protoplasmic ratio, III, 641.
- Lindemann, E., and Finesinger, J. E., subjective response of psychoneurotic patients to adrenaline and acetyl- β -methylcholine, III, 99.
- Linden, E. See Hagg, G.
- Lindgren, A. J. See Haney, H. F.
- Lindholm, E., quantum-mechanical treatment of atomic collisions, I, 215.
- Lindner, J., purification of substances by partial fusion and warm absorption, I, 320.
- Lindner, M. See Pollack, M. A.
- Lindner, R. C., and Harley, C. P., determination of nitrogen in plant tissue, III, 448.
- Lindsay, J. R. See Kobrak, H. G.
- Lindsay, R. A. See Beebe, A. H., jun.
- Lindsay, S., instrument for removing spinal cord through foramen magnum, III, 636.
- Lindsay, S. T. See Davidson, L. S. P.
- Lindsey, D. B., Finger, F. W., and Henry, C. E., physiological aspects of audiogenic seizures in rats, III, 14.
- Lindsey, R. V., jun. See Fuson, R. C.
- Lindskog, G. E. See Dayton, A. B.
- Lindwall, H. G. See Barrows, R. S., and Kaplan, H.
- Linegar, C. R. See Koppanyi, T.
- Lingafelter, E. C. See Paquette, R. G., and Scott, A. B.
- Lingane, J. J., polarographic investigation of rhenium compounds. II. Oxidation of Re⁺ at the dropping electrode and potential of the Re⁺-Re⁺ couple, I, 18. Polarography of stannous and cupric tartrate complexes; amperometric titration of tin with cupric ion, I, 230.
- Swain, C. G., and Fields, M., polarographically controlled syntheses, with reference to organic chemistry, II, 339.
- Link, K. P., Overman, R. S., Sullivan, W. R., Huebner, C. F., and Scheel, L. D., haemorrhagic sweet clover disease. XI. Hypoprothrombinaemia in rat induced by salicylic acid, III, 626.
- See also Baumann, C. A., and Overman, R. S.
- Linkszt, A., determination of axis and amount of astigmatic error by rotation of trial cylinder, III, 105. Designation of visual acuity, III, 729. Objectives of orthoptic examination and treatment, III, 729.
- Linn, C. B. See Grossé, A. V.
- Linn, J. G. See Sayers, R. R.
- Linnell, W. H., and Shaikhahamud, H. S., isomerides of stilboestrol, II, II, 88.
- Linsker, F., and Bogert, M. T., amidino-arsenicals. I. *p*-Aminophenylarsonic acid and *pp'*-di-amidinoarsenobenzene, II, 234.
- Linstrand, R. P., and Davis, S. B., stereochemistry of catalytic hydrogenation. IV. Hexahydrodiphenic acids, II, 62.
- Davis, S. B., Doering, W. E., Levine, P., and Whetstone, R. R., stereochemistry of catalytic hydrogenation. I. Stereochemistry of hydrogenation of aromatic rings, II, 62.
- Davis, S. B., and Whetstone, R. R., stereochemistry of catalytic hydrogenation. V. Assignment of *cis* and *trans* configurations, II, 62.
- Doering, W. E., and Slinger, F. H., stereochemistry of catalytic hydrogenation. II. Preparation of six inactive perhydrodiphenic acids. III. Optically active perhydrodiphenic acids; proof of configuration of the backbone, II, 62.
- Levine, P., stereochemistry of catalytic hydrogenation. VII. Complete hydrogenation of phenanthraquinone, II, 62.
- Levine, P., and Whetstone, R. R., stereochemistry of catalytic hydrogenation. VI. Hydrogenation of 9-phenanthrol and related substances; identification of three of possible stereoisomeric forms of perhydrophenanthrene ring, II, 62.
- Linton, R. E., treatment of acute arterial occlusion by intermittent venous occlusion, III, 463.
- Lintz, R. M., spontaneous mediastinal emphysema, III, 465.
- Lintzel, W., and Rechenberger, J., protein metabolism. III. Protein-sparing effect of incomplete proteins (zein and gelatin) in man, III, 669.
- Linwood, S. H., and Weyl, W. A., fluorescence of manganese in glasses and crystals, I, 50.
- Linz, A., preparation of phosphomolybdic acid from phosphoric acid and pure molybdic acid, I, 261.
- Linzbach, A. J., muscular abdominal wall and its influence on position of viscera, III, 297.
- Lion, K. S., magnetic susceptibility of beef tendon, III, 817.
- Lionberger, J. R. See Scott, W. G.
- Lipetz, M. E., protractor for a direct measurement on a screen of contact angles, I, 240.
- Lipin, S. V., Uskov, V. S., and Klokman, V. R., heat of formation of iron disulphide, I, 303.
- Lipkin, D. See Lewis, G. N., and Weissman, S. I.
- Lipkin, M. See Eidelberg, J.
- Lipkoff, C. J. See Buchbinder, J. H.
- Litmann, F., and Perlmann, G. E., metabolism of crotonic acid, III, 505.
- Lipp, M. [with Oeckinghaus, E., and Conze, C. L.], isooalcohols of camphane series. II. 2-isoHydroxycyclocamphane, II, 306. [with Proth, V.], attempted preparation of a tetracyclic hydrocarbon of the camphane series, II, 306.
- Lipp, W. F., and Aaron, A. H., sedimentation rate in gastrointestinal disease, III, 454.
- Lippert, C. von. See Eder, R.
- Lippincott, S. W., and Blum, H. F., neoplasms and other lesions of the eye induced by ultra-violet radiation in strain A mice, III, 748.
- Edwards, J. E., Grady, H. G., and Stewart, H. C., spontaneous neoplasms in mice, III, 250.
- See also Blum, H. F.
- Lippmann, A., effect of irradiation with ultra-violet rays and short waves on metabolism and insensible perspiration, III, 270.
- Lippmann, K., arsenic [and sulphuramide] in treatment of bacterial endocarditis, III, 198.
- Lipschitz, W. L., Upham, S. D., Hotchkiss, C. N., and Carlson, G. H., parenteral use of organic esters, III, 424.
- Lipschütz, A., steroid hormones and experimental fibroids, III, 482. Endocrine aspects of antitumoral autodifense, III, 570.
- and Vargas, L., jun., influence of age on serosal tumoral reaction of guinea-pig to oestrogens, III, 649.
- and Zanartu, J., antifibromatogenic action of a natural cortical hormone (dehydrocorticosterone of Kendall), III, 39.
- Lipscomb, A. G., cutting wide-bore glass tubing and glass bottles, I, 267.
- Lipshutz, J. See Blumberg, N.
- Lipsius, S. T. See Arnold, A.
- Lipson, H., and Edwards, O. S., device for use in making powder specimens for a high-temperature X-ray camera, I, 44.
- and Stokes, A. R., structure of graphite, I, 53.
- and Weill, A. R., phase change in iron-silicon alloys, I, 88.
- See also Bragg, (Sir) L., and Edwards, O. S.
- Lisa, J. R., Eckstein, D., and Solomon, C., relationship between arteriosclerosis of renal artery and hypertension, III, 632.
- Galloway, I., Hart, J. F., and Magiday, M., arteriosclerosis with diabetes mellitus, III, 463.
- Gordon, E. J., and Solomon, C., Addison's disease in negroes, III, 558.
- Hart, J. F., and Magiday, M., peripheral arteriosclerosis in diabetics, III, 94.
- Lischer, C. E. See Elman, R., and Goodof, I. I.
- Lischer, C. F. See Landsberg, J. W.
- Lisle, M. See Stein, K. P.
- Lisser, H., Escamilla, R. F., and Curtis, L. E., testosterone therapy of male eunuchs. III. Sublingual administration of testosterone compounds, III, 120.
- See also Escamilla, R. F., and Goldberg, M. B.
- Lissman, J. See Madonick, M. J.
- Lissmann, H. W. See Gray, J.
- Lister, A., and Bishop, J. W., night vision in the army, III, 878.
- Litchfield, H. R., value of blood-iodine determinations, III, 304. Acute abdominal conditions in children, III, 654.
- Litchfield, J. T. See Marshall, E. K.
- Litmanowitsch, M. See Halban, H. von.
- Littaye, G., measurement of surface tension of liquids by method of vibrating jets, I, 167.
- Little, C. C. See Fekete, E., Spangler, J. M., and Woolley, G. W.
- Little, E. L., jun. See Morton, A. A.
- Little, E. P. See Evans, T. C.
- Little, J. E., and Caldwell, M. L., action of pancreatic amylase. II, III, 351.
- Little, R. See Fincke, M. L.

- Little, R. W., Thomas, A. W., and Sherman, H. C., spectrophotometric studies of storage of vitamin-A in the body, III, 663.
- Little, S. C., nervous and mental effects of sulphonamides, III, 265.
- Littmann, H., refractive power of absorbing liquids, I, 265.
- Littwin, R. J. See Eggerth, A. H.
- Litvak, A. M. See Gibel, H.
- Litwits, J. See Greenwald, L.
- Liu, F. See Weichsel, M.
- Liu, S. H., and Chu, H. I., treatment of renal osteodystrophy with dihydrotachysterol (A.T.10) and iron, III, 37.
- Liu, T. H., electro-negativity scale of elements, I, 250.
- Livermore, A. H. See Sealock, R. R.
- Livezez, M. M. See Wolferth, C. C.
- Livingood, C. S. See Beerman, H.
- Livingood, J. J. See Kinsey, V. E.
- Livingston, A. E. See Cunningham, R. W.
- Livingston, H. K., surface energy relationships in petroleum reservoirs, I, 108.
See also Boyd, G. E.
- Livingston, P. C., and Bolton, B., night visual capacity of psychological cases, III, 315.
- Livingston, R., rate of decomposition of hydrogen peroxide in concentrated solutions, I, 230.
- Livingston, S., and Bridge, E. M., tests of carbohydrate metabolism in infants, III, 261.
See also Kurzrok, L.
- Livingston, W. K., trigeminal neuralgia; treatment by novocain injection of trigger zones, III, 636.
- Livingstone, H. See Allen, J. G., and Light, G.
- Llewellyn, J. S., and Biggs, A. D., hypoplasia of mandible, III, 706.
- Lloyd, D. J., and Pugh, W., gallium. VI. Separation of gallium and germanium from alkaline extracts of germanite by electrolysis. VII. Gallium perchlorate hydrates and a gallium perchlorate-urea complex, I, 134.
- Lloyd, D. P. C., stimulation of peripheral nerve terminations by active muscle, III, 13. Centripetal discharges in dorsal and ventral roots following stimulation of muscle by ventral root volleys, III, 552. Mediation of descending long spinal reflex activity, III, 794. Interaction of antidiromic and orthodromic volleys in segmental spinal motor nucleus, III, 794. Reflex action in relation to pattern and peripheral source of afferent stimulation, III, 794.
- Lloyd, R. I., hereditary macular degenerations, III, 733.
- Lloyd, T. W. See Baar, H. S.
- Lo, C. P. See Minlon, H.
- Lo, C. T. See Pu, T. L.
- Lo, T. Y., proteins of hog and German millets, III, 702. Alcohol- and alkali-soluble proteins of hog and German millets, III, 702. Vitamin-P content of Kweichow vegetables and fruits, III, 903.
and Chang, M. C., vitamin-P content of Chinese red and green peppers, III, 904.
and Wu, C. H., availability of proteins of Kweichow leafy vegetables, III, 661. Amino-acid content and proteolytic activity of the rice kernel, III, 927.
- Locadio, S. A., and Hinton, J. W., cotton as suture material, III, 779.
- Loch, W. E., effect on hearing of experimental occlusion of Eustachian tube in man, III, 106. Effect of experimentally altered air pressure in middle ear on hearing acuity in man, III, 474. Incidence and permanence of tonal dips in children, III, 643.
See also Crowe, S. J.
- Lochhead, A. G., growth factor requirements of *Bacillus larvae*, White, III, 436.
and Chase, F. E., bacterial growth factors in soil, III, 432. Soil micro-organisms. V. Nutritional requirements of predominant bacterial flora, III, 847.
and Landkin, G. B., nutrile requirements of osmophilic yeasts, III, 202.
- Lochte, H. L., Crouch, W. W., and Thomas, E. D., nitrogenous compounds in petroleum distillates. XXIV. Isolation and identification of a $C_{11}H_{17}N$ base from Californian petroleum, II, 172.
See also Crouch, W. W., Ney, W. O., and Quebedaux, W. A.
- Lock, G., and Walter, E., chloromethylation of naphthalene and the application of 1:5-dichloromethylnaphthalene to syntheses of polycyclic ring systems. I., II, 126.
- Locke, A., Locke, R. B., McIlroy, A. P., and Chung, L., appraising ability to resist gravitational shock in rabbits, III, 331.
- Locke, R. B. See Locke, A.
- Lockhart, J. See McDermott, W.
- Lockwood, J. R. See Ferguson, A. S.
- Lockwood, J. S., and Ravdin, I. S., prophylactic use of sulphamilamide in abdominal surgery, III, 509.
- Lockwood, L. B., Tabenkin, B., and Ward, G. E., production of gluconic acid and 2-ketogluconic acid from glucose by species of *Pseudomonas* and *Phytomonas*, III, 278.
- Lockwood, W. H. See Lemberg, R.
- Lodat, F. C., and Weber, C., effect of fluorescence on germination, III, 73.
- Lodenkamper, H., development of vibrios. II., III, 148.
- Lodge, R. M., and Hinshelwood, C. N., physico-chemical aspects of bacterial growth. VIII. Growth of *Bact. lactic aerogenes* in media containing ammonium sulphate or various amino-acids. IX. Lag phase. X. Variability of growth rate, III, 523.
- Loeb, H. G., influence of oestradiol benzoate on fat storage, III, 392.
- Loeb, R. F., adrenal cortex and electrolyte behaviour, III, 883.
- Loeffel, E. See Castrodale, D.
- Löffler, W., and Hegglin, R., comparison of therapeutic efficacy of sulphapyridine and sulphathiazole in acute pneumonia, III, 49.
and Mooser, H., transmission of rickettsia infection, III, 696.
- Lofquist, H., and Benedicks, C., Great Norden-skjold [metallic] iron boulder from Ovifak [Greenland]: microstructure and mode of formation, I, 140.
- Lohmann, H. J. See Schulz, G. V.
- Loeser, A., emotional shock and endometrium, III, 739.
- Low, I. See Kuhn, R.
- Loewe, I. See Loewe, S.
- Loewe, L. See Arndt, F.
- Loewe, S., Loewe, I., and Knox, R., jun., thiamin influence on laxative action, III, 753.
See also Adams, R.
- Loewenbach, H., and Morgan, J. E., human skin as a conductor of 60-cycle alternating current of high intensity, studied on "electroshock" patients, III, 895.
- Loewenstein, A. See Conway, J. A., and Garrow, A.
- Loewinger, I. E. See Clifton, C. E.
- Lowy, H., electric determination of film-volume and film-density, I, 14. Solidified water-films, I, 89. Vapour pressure and electrodynamic volume of suspensions, I, 126.
- Lofgren, F. V., and Kinsley, D. L., [pharmacognosy of] *Strychnos spinosa*, III, 219.
- Lofgren, R. C., erythema of palms associated with pregnancy, III, 173.
- Logan, M. A. See Bambach, K., and Boyd, M. J.
- Logan, R. F. L. See Almond, S.
- Logan, W. A. See Clifton, C. E.
- Logemann, W. See Koster, H.
- Logie, J. W., mastopathia cystica and mammary carcinoma, III, 40.
- Logue, R. B., and Laws, C., mecholyl desensitisation in treatment of asthma, III, 516.
- Logue, V. See Landau, E.
- Logvinenko, N. V., goyazite in carboniferous limestones of Donets basin, I, 106.
- Lohr, H., thermodynamic method for Planck's radiation law, I, 215.
- Lohrer, W., qualitative analysis of ammonia and ammonium sulphide groups, I, 23.
- Lohrmann, O. See Fricke, R.
- Lojkin, M. E. See Mulinos, M. G.
- Loken, R. D. See Dunlap, K.
- Lolivette, J. P., and Walker, J. C., effect of boron deficiency on histology of garden beet and cabbage, III, 537.
- Lolli, G., and Greenberg, L. A., effect of insulin on rate of disappearance of alcohol from stomach, III, 589.
See also Greenberg, L. A.
- Loman, J. See Myerson, A.
- Lomant, H. V. See Vollmer, Hubert.
- Lombard, H. L., and Warren, S., association of other malignant tumours with cancer of skin, III, 571.
- Lominski, I., and Lendrum, A. C., effect of surface-active agents on *B. proteus*, III, 65.
- London, F., photochemistry of formation of sulphuryl chloride, I, 206.
- London, F., distance correlations and Bose-Einstein condensation, I, 197.
- Long, C., method for determination of α -keto-acids, and its application to α -keto-acid metabolism in pigeon brain, III, 47. *In-vitro* oxidation of pyruvic and α -ketobutyric acids by ground preparations of pigeon brain; effect of inorganic phosphate and adenine nucleotide, III, 671.
- Long, C. N. H., growth and metabolic hormones of anterior pituitary, III, 560.
See also Engel, F. L., Golden, W. R. C., Sayers, G., and Tepperman, J.
- Long, C. W. See End, E.
- Long, E. M. See Hayward, H. E.
- Long, F. A., and Nutting, G. C., relative surface tension of potassium chloride solutions by a differential bubble pressure method, I, 60.
- Long, H. F. See Hammer, B. W.
- Long, J. A. See Burlingame, P.
- Long, L. M. See Henze, H. R.
- Long, R. W., Hildebrand, J. H., and Morrell, W. E., polymerisation of gaseous hydrogen and deuterium fluorides, I, 160.
- Long, W. B., and Goldberg, J. A., spinal fluid examinations, III, 468.
- Long, W. E., phenarsine hydrochloride for syphilis, III, 678.
See also Moss, R. E.
- Long, W. P. See Gallagher, T. F.
- Longacre, A. B. See Ochsner, A.
- Longfellow, D., and Luippold, G. F., typhoid vaccine studies. VIII. Relationship between V forms of *Bact. typhosum* and *Bact. ballerup*, III, 607. Typhoid-paratyphoid vaccine, III, 694.
- Longi, Y. See Chrétien, A.
- Longland, C. J., spontaneous rupture of pulmonary artery, III, 230.
- Longley, B. J., Clausen, N. M., and Tatum, A. L., experimental production of primary optic atrophy in monkeys by administration of organic arsenical compounds, III, 317.
See also Clausen, N. M.
- Longmire, W. P. See Price, P. B.
- Longuet-Higgins, H. C., and Bell, R. P., structure of boron hydrides, I, 220.
- Longwell, B. B. See Hill, B. R.
- Lonsdale, (Mrs.) K. See Bannister, F. A.
- Loofbourouw, J. R., intercellular hormones. V. Proliferation-promoting effect of damaged-cell products due to adenine nucleotides and growth factors, III, 113.
- Stimson, M. M., and Hart, M. J., ultra-violet absorption spectra of nitrogenous heterocycles. V. Blocking effect of methyl groups on the ultra-violet absorption spectra of hydroxypyrimidines and pyrimidines, II, 208.
- Loomis, T. A., Hubbard, R. S., and Neter, E., inhibition of bacteriostatic action of sulphamilamide by yeast extracts, III, 581.
See also Emery, F. E., and Hubbard, R. S.
- Loonet, J. M. See Freeman, H.
- Looney, J. M., case of delayed induction of menstruation in primary amenorrhœa, III, 242.

- Looney, J. M.**, and Borkovic, E. J., effect of diathermy on brain metabolism: changes produced on sugar, lactic acid, and pH of arterial and venous blood of the brain in paretic patients, III, 726.
 and Dyer, C. G., photo-electric determination of potassium in blood serum, III, 303.
- Loosanoff, V. L.**, reproduction in oysters, I, III, 738.
 and Engle, J. B., reproduction in oysters, II, III, 738.
- Loosli, C. G.**, Robertson, O. H., and Puck, T. T., production of experimental influenza in mice by inhalations of atmospheres containing influenza virus dispersed as fine droplets, III, 776.
- Loosli, J. K.**, and McCay, C. M., utilisation of urea by young calves, III, 405.
- McCay, C. M.**, and Maynard, L. A., utilisation of urea by calves less than four months of age, III, 495.
- Lopes, T. L.**, Soret effect in denatured methaemoglobin, III, 302.
- López, V. M.**, Mencher, E., and Brineham, J. H., jun., geology of S.E. Venezuela, I, 292.
- López de Azcóna, J. M.**, geochemical study of blenders, I, 170.
- Lord, J. O.**, structural history of iron meteorites, I, 322.
- Lord, J. W., jun.**, effect of trauma of liver on plasma-prothrombin, III, 303.
- Andrus, W. DeW.**, and Stefko, P., effects of jejunal transplants on experimental production of peptic ulcers, III, 653.
 and Chenoweth, A. I., free graft over vitallium tube for bridging gap in common bile duct of the dog, III, 397.
 See also Andrus, W. DeW., and Stefko, P.
- Lorenz, A. J.**, and Arnold, L. J., preparation and assay of crude citrin solutions (vitamin-P) from lemons, III, 191.
- Lorenz, E.** See Stewart, H. C.
- Lorenz, R.** See Spath, E.
- Lorenz, U. A.**, and Knott, J. E., grey wall of tomato, III, 536.
- Loring, F. H.**, classifications of the elements. I. Mainly stable, I, 269.
- Loring, H. S.**, and Pierce, J. G., isolation by differential ultracentrifugation, identification, and properties of glycogen from *Macrosiphum pisii* and *Aphis brassicae*, III, 616.
- Lorr, J. A.**, and Burrows, W., nutritive requirements of *Salmonella*. IV. Function of amino-acids in growth of typhoid bacillus, III, 66.
- Lossman, R. T.** See Lowenberg, K.
- Lothrop, W. C.**, and Goodwin, P. A., modification of Ullmann synthesis of fluorene derivatives, II, 196.
- Lottermoser, A.**, Schmied, R., and Chu, P. C.,olation of chromium salts, I, 310.
- Lotwin, G.** See Kenyon, A. T., and Knowlton, K.
- Loudon, J. D.** See Buchanan, C.
- Loughlin, E. H.**, Bennett, R. H., Flanagan, M. E., and Spitz, S. H., relative absorption and conjugation of sulphanilamides in man during a 3-hour period, III, 759.
- Bennett, R. H.**, and Spitz, S. H., treatment of types V, VI, and VII pneumococcal pneumonia with rabbit antipneumococcus serum, III, 212.
 See also Bennett, R. H.
- Loughlin, W. C.** See Freston, J. M.
- Louis, L.** See Miller, C. D.
- Louria, A. L.**, and Solomon, C., complete anuria following sulphadiazine, III, 674.
- Lourie, E. M.**, treatment of sleeping sickness in Sierra Leone, III, 266.
- Lourie, R. S.**, rate of secretion of parotid glands in normal children, III, 652.
- Loustalot, A. J.**, catalase activity and nitrogen content of apple buds in relation to advance of season, III, 699. Catalase activity in relation to after-ripening of apple seeds, III, 699.
 and Hamilton, J., effect of downy spot on photosynthesis and transpiration of pecan leaves, III, 538.
- Loutit, J. F.**, Mollison, M. D., and Walt, E. D. van der, venous pressure in blood donors and recipients, III, 377.
- Love, F. M.** See Hartmann, A. F.
- Love, J. G.** See Wagener, H. P.
- Lovelace, F. E.** See Carpenter, D. C.
- Loveland, R. P.**, photomicrography with a hand camera, III, 447.
- Loveless, M. H.**, and Baldwin, H. S., "coli metabolin" therapy in hay fever, III, 71.
- Lovern, J. A.** See Bacharach, A. L.
- Lovestedt, S. A.**, roentgenographic method for determination of degree of decalcification in preparation of tissues for histological examination, III, 369.
- Low, B. W.** See Crowfoot, D. M.
- Low, F. N.**, peripheral visual acuity, III, 803.
- Low-Ber, B. V. A.**, Lawrence, J. H., and Stone, R. S., therapeutic use of artificially produced radioactive substances, III, 517.
 and Treadwell, A. de G., [rise in platelet count as] early effect of small amounts of radiophosphorus, III, 5.
 See also Treadwell, A. de G.
- Lowe, C.** See Westerfield, W. W.
- Lowe, P. R.**, phylogeny of Struthiones, III, 77.
- Lowell, W. R.**, paragenesis of gold and copper ores of S.W. Oregon, I, 169.
- Lowenberg, K.**, and Lossman, R. T., atrophy of brain following puerperal eclampsia, III, 874.
- Lowenstein, B. E.** See Simms, H. S.
- Lowenstein, O.**, physiological assay of pyrethrum extracts [on nerve cord of cockroach], III, 269.
- Lower, W. E.**, transposition of anus, III, 154.
 Schlumberger, F. C., and Ferguson, E. E., hormonal treatment of benign enlargement of prostate, III, 481.
- Lowery, H.**, ultra-violet dispersion of air, I, 7.
- Lowman, A.**, chromatographic analysis in reverse, I, 103.
- Lowman, R. M.**, and Finkelstein, A., air myelography for demonstration of cervical spinal cord, III, 466.
- Lowry, H. H.**, relation of physical constitution of coal to its chemical characteristics, I, 76.
- Lowry, J. V.**, Ashburn, L. L., Daft, F. S., and Sebrell, W. H., polyneuropathy in thiamin-deficient rats delayed by alcohol or whisky, III, 408. Effect of alcohol in experimental liver cirrhosis, III, 589.
- Lowry, O. H.**, Cohen, D. L., and Smith, C. A., microcolorimetric method for measuring oxygen saturation of blood, III, 306.
- Hunter, F. T.**, Irvine, J. W., jun., and Kip, A. F., radioactive tracer studies on arsenic injected as potassium arsenite. II. Chemical distribution in tissues, III, 421.
 See also Anfinsen, C. B.
- Lowsley, O. S.**, accessory urethra, III, 78.
- Lozinski, E.**, Holden, G. W., and Macallum, E. N., excretion of oestrogens and gonadotropic hormone in urine and concentration of gonadotropic hormone in serum of pregnant sow, III, 479.
- Lu, M.** See Huang, Y. T.
- Lubin, A. J.**, experimental neurosis in animal and man, III, 468.
 and Price, J. C., effect of alkalosis and acidosis on cortical electrical activity and blood flow, III, 14.
- Lubitz, J. M.**, serologic reactions following smallpox vaccinations, III, 696.
- Lubschez, R.** See Wilson, M. G.
- Lucas, A. M.** See Birch, F. M.
- Lucas, C. C.**, penicillin, III, 917.
- Lucas, H. J.**, Billmeyer, F. W., jun., and Pressman, D., co-ordination of silver ion with unsaturated compounds. III. Mixtures of trimethylene and cyclohexene, II, 181.
- Moore, R. S.**, and Pressman, D., co-ordination of silver ion with unsaturated compounds. II. *cis*- and *trans*- $\Delta\beta$ -Pentene, II, 181.
 See also Pressman, D.
- Lucas, P.** See Kwartler, C. E.
- Lucas, R.**, osmotic pressure and diffusion, I, 58.
- Lucas, W. M.** See Barnes, R. P.
- Lucasse, W. W.** See Eckfeldt, E. L.
- Lucchese, P. F.**, and Gildersleeve, N., prophylactic use of sulphanilylguanidine in dysentery outbreak, III, 907.
 See also Peale, A. R.
- Lucchi, E.**, kinetics of oxidation of aldehydes by chromic acid. III. Oxidation of tolualdehydes. IV. Oxidation of bromobenzaldehydes, I, 38.
 See also Betti, M.
- Luce, E. N.**, Denice, E. C., and Akerlund, F. E., turbidimetric determination of small amounts of chlorides, I, 234.
- Luchsinger, R.**, voice and speech of cretins, III, 644.
- Lucht, F. J.** See Koelsch, C. F.
- Lucia, S. P.**, and Aggeler, P. M., easy bruising : pseudo-haemorrhagic diathesis of probable endocrine origin, III, 85.
- Aggeler, P. M.**, and Hamlin, L. H., significance of extracorporeal volume of clot and its clinical application, III, 227.
 See also Aggeler, P. M., and McIvor, B. C.
- Luckey, J. B.** See Price, P. H.
- Luckey, H.** See Robinson, C. S.
- Luckey, T. D.** See Briggs, G. M., jun.
- Luckey, W. H.** See Taub, A.
- Luckhardt, A. B.** See Patt, H. M.
- Luckiesh, M.**, and Moss, F. K., effects of astigmatism on visibility of print, III, 469. Initial and residual effects of ophthalmic prisms on visibility and accommodation, III, 800.
- Luco, J. V.** See under Luco Valenzuela, J.
- Luco Valenzuela, J.**, rate of disappearance of blood-sugar in heart-lung-thyroid and heart-lung-liver preparations, III, 7. System of perfusion using heart-lung preparation, III, 8. Influence of insulin on glycæmia in heart-lung-thyroid and heart-lung-liver preparations, III, 112.
- Pichard, R.**, and Huidobro, F., action of magnesium sulphate on skeletal muscles, III, 634.
 See also Croxatto, R., and Salvestrini, H.
- Ludány, G.**, Jászberényi, J., and Zsárai, K., effect of low atmospheric pressure on opsonic activity of serum, III, 788.
 and Kovács, J., effect of fruit juices on movement of intestinal villi, III, 814.
 and Sütő-Nagy, J., magnesium and absorption of sugar from the intestine, III, 814.
- Luder, W. F.**, acids and bases ; their relationship in oxidising and reducing agents, I, 95. Variable ratio-arm conductivity bridge, I, 138. Electron configuration as the basis of periodic table, I, 294.
 See also Ingram, A. R.
- Luford, R. J.** See Gye, W. E.
- Luduena, F. P.** See Tainter, M. L.
- Ludwig, C. A.**, Allison, F. E., Hoover, S. R., and Minor, F. W., biochemical nitrogen fixation. III. Production and oxidation of ethyl alcohol by legume nodules, III, 72.
- Ludwig, E. E.** See Griswold, J.
- Ludwig, F.**, treatment of imminent and habitual abortion with corpus luteum hormone and vitamin-E, III, 888.
- Ludwig, W.**, activity of exponentially diluted solutions, I, 150.
- Lüdecke, W.** See Friese, H.
- Lüscher, E.**, vasomotor rhinopathy and related neuro-vascular disturbances of nose and nasal cavities, III, 168. Audiometry, III, 168. Sulphanilamide treatment in oto-rhino-laryngology, III, 804.
- Lufkin, N. H.**, and Strolberg, M., prothrombin test, III, 227.
- Luft, K. F.**, activity of highly diluted ("potenziert") substances, I, 35.
- Lugg, J. W. H.**, formaldehyde in determination of ascorbic acid and dehydroascorbic acid, III, 43. Formaldehyde and 2,6-dichlorophenol-indophenol in determination of ascorbic acid and dehydroascorbic acid, III, 258. Cryptogam tissue proteins : protein composition and tissue function in plants, III, 539.

- Lugg, J. W. H., and Weller, R. A., germinating seeds as source of vitamin-C in human nutrition. I. Ascorbic acid and dehydro-ascorbic acid contents of seeds germinating under standard conditions for varying periods of time, III, 826.
- Luippold, G. F., typhoid vaccine studies. V. Relationship between antigenic and immunological properties of bacterial suspensions, III, 286.
See also Longfellow, D.
- Luke, J. C., heparin in mesenteric venous thrombosis, III, 865.
- Lukens, F. D., Dohan, F. C., and Wolcott, M. W., pituitary diabetes in cat: recovery following phloridzin treatment, III, 886.
- Lukesh, J. S., size of unit cell and coefficient of expansion of high-crystobalite, I, 242.
and Buerger, M. J., unit cell and space-group of kaliophilite, I, 268.
- Lukin, A. V., stages of sexual maturity in *Acipenser*, III, 392. Frequency of oestrus in *Acipenser*, III, 392.
- Lukovnikov, E. K. See Tschajlachjan, M. C.
- Lum, E. A., contamination of foodstuffs with diphenylchloroarsine (D.A.), III, 677.
- Lundberg, W. O. See Barnes, R. H.
- Lundgren, H. P., Elam, D. W., and O'Connell, R. A., electrophoretic study of action of alkylbenzenesulphonate detergents on ovalbumin, III, 838.
- Lundquist, N. S., and Phillips, P. H., nutritional studies on calf scours, III, 494.
See also Phillips, P. H.
- Lundstrom, E. G. See Young, C. B. F.
- Lundy, J. S. See Mousel, L. H.
- Luria, S. E., Delbrück, M., and Anderson, T. F., electron microscope studies of bacterial viruses, III, 924.
See also Delbrück, M.
- Luria, J. J., and Tal, E. M., application of the photocolorimeter in volumetric analysis, I, 316.
- Luria, L. A., and Levy, S., Laurence-Moon-Biedl syndrome, III, 315. Pancreatic encephalopathy, III, 893.
- Luria, M. B., immunity in tuberculosis; fate of tubercle bacilli ingested by mononuclear phagocytes from normal and immunised animals, III, 439.
- Luria, M. H., degeneration and absorption of organ of Corti in animals, III, 168.
- Luria, S. I., Starobogatov, O. I., and Nikitskaja, E. S., hydrolysis of acetyl sulphanyl acid derivatives, III, II, 105.
- Lush, D. See Edward, D. G. ff., and Ende, M. van den.
- Lushbaugh, C. L., and Cannon, R. R., action of sulphapyridine, III, 48.
- Lusk, H. A. See Cooper, R. S., and Sumwalt, M.
- Lustbader, P. F., blood groupings in poliomyelitis, III, 82.
- Lustig, H. See Neuberg, C.
- Lutikova, O. T., enzymes in ripening peas, III, 854.
See also Rubin, B. A.
- Lutwak-Mann, C., effect of salicylate and cinchophen on enzymes and metabolic processes, III, 55. Excretion of metabolic product of salicylic acid, III, 764.
- Lutz, H., and Hardy, M. B., effect of foliar condition on photosynthetic activity of pecan leaves, III, 701.
- Lutz, R. E., Bailey, P. S., and McGinn, C. E., acylation of 3-hydroxyfurans, II, 272.
and McGinn, C. E., conversion of unsaturated 1:4-diketones into furans and hydroxy-furanones, II, 100. Halogen compounds derived from 2:5-diphenyl-3-methylfuran, II, 100. 3-Hydroxy-2:5-dimesitylfuran and related compounds, II, 273.
- and Terry, D. H., preparation and alkylation of $\alpha\delta$ -dimesityl- γ -methylbutane- $\alpha\beta\delta$ -trione enol, II, 66. Stereoisomeric unsaturated bromo- $\alpha\delta$ -dimesityl $\alpha\delta$ -diketones, II, 66.
- Lutzmann, H., *cis-trans*-rearrangement of o-coumaric acid glucoside, glucoside of o-hydrocoumaric acid, and occurrence of coumarins in the tonka bean, II, 274.
- Lux, H., and Rogler, E., Cr^{III}/Cr^{VI} indicator in investigation of borate melts, I, 128.
- Lymann, C. P., penetration of radioactive potassium in denervated muscle, III, 634.
- Lynas-Gray, J. I., and Simonsen, J. L., action of bases on 1-diazoanthraquinone-2-sulphonate and its derivatives, II, 136.
- Lynch, C. C. See Schneider, C. H.
- Lynch, C. J., lung tumours following intraperitoneal injection of 1:2:5:6-dibenzanthracene into young mice of three strains, III, 896.
- Lynch, F. W., endocrine disturbances in relation to skin diseases, III, 556.
- Lynen, F., mixed anhydride of phosphoric and acetic acid, II, 250. Biological degradation of acetic acid. I. Induction period with impoverished yeast, III, 352.
- Lynn, E. V. See Costello, C. H.
- Lynn, J. G., Zwemer, R. L., Chick, A. J., and Miller, A. E., generation and use of focussed ultrasound in experimental biology, III, 200.
- Lyon, A. M., and Bergmann, W., marine products. XII. Oxidation of poriferasterol, II, 40.
- Lyon, B. B. V., tuning-fork auscultation; test for abdominal adhesions, III, 654. Duodenal tube biliary tract drainage, III, 744.
- Lyon, D. R., and Mann, F. G., tetra-aryl-phosphonium, -aronium, and -stibonium salts. II. Formation by aluminium chloride reaction, II, 50.
See also Mann, F. G.
- Lyon, G. M., sulphanilamides in acute bacillary dysentery, III, 583.
- Lyon, R., lactogenic hormone prolongs the time during which deciduoma may be induced in lactating rats, III, 326.
- Lyon, R. A. See Anderson, N. A.
- Lyons, C., and Owen, C. R., Wilson-Blair medium in diagnosis of clostridia of gas gangrene, III, 211.
- Lyons, J. J. A., Climenko, D. R., and Gorham, L. W., subcutaneous administration of sodium sulphathiazole in clinical conditions, III, 672.
- Lyons, R. H., and Balberor, H., febrile reactions on readministration of sulphathiazole, III, 136.
See also Jacobson, S. D.
- Lyons, R. N. See De Burgh, P. M.
- Lyons, W. R., direct mammotrophic action of lactogenic hormone, III, 324.
- Berlin, I., and Friedlander, S., cornification of balano-preputial epithelium in normal rats and in castrated rats treated with testosterone propionate, III, 481.
- Evans, H. M., and Simpson, M. E., influence of lactogenic preparations on mammary glands and time of vaginal opening in young rats, III, 650. Hormonal requirements for pregnancy and mammary development in hypophysectomised rats, III, 811.
- Lythgoe, B., and Madinaveitia, diffusing factors. X. Formation of viscous materials by *Clostridium butylicum*, III, 434.
- See also Badiley, J., Chattaway, F. W., and Kenner, G. W.
- Lyttle, J. D., Goetsch, E., Greeley, D. M., Grim, W. M., and Dunbar, P., plasma-amino-acid retention, as evidence of impaired liver function; investigation in children with nephrosis and liver disease, III, 654.
- Lyttleton, J. W. See Briggs, L. H.
- M.
- Ma, R. See Robbins, W. J.
- Ma, S. T., scattering of mesons by matrix method, I, 79.
- Maaske, J. D. See Abt, A. F.
- MacAdam, D. L., specification of small chromaticity differences, III, 554.
- McAlister, E. D. See Weintraub, R. L.
- Macallum, A. B., and Sivertz, C., potentiation of insulin by sulphones, III, 112.
- Macallum, E. N. See Lozinski, E.
- McAnalley, R. See Barcroft, J.
- McArdle, B. See Fitzgerald, G.
- McArthur, F. X. See Ulrich, C. A.
- McAulay, A. L., and Taylor, M. C., toxicity of ultra-violet radiation, III, 200.
- McBain, E. H., hereditary corneal dystrophies, III, 311.
- McBain, J. W., and Bolduan, O. E. A., osmotic properties of solutions of typical colloidal electrolytes, I, 200.
- De Bretteville, A., jun., and Ross, S., diffraction of X-rays by sodium stearate at room temperature, I, 194.
- and Lee, W. W., sorption of water vapour by soap curd, I, 255.
- See also De Bretteville, A., jun., Johnston, S. A., and Stamberg, O. E.
- McBain, M. E. L., migration data in solutions of a colloidal electrolyte; laurylsulphonic acid, I, 226.
- McBee, R. H., and Speck, M. L., anaerobic culture tube for determining CO₂/H₂ ratios of coliform bacteria, III, 919.
- McBride, A., and Branning, W. S., spontaneous acidosis in premature infants, III, 88.
- McBride, D. E., and Giordano, A. S., procedure for typing and compatibility test for blood donors, III, 711.
- McBride, J. J., liver glycogenesis and fasting in the rat; effect of glucose feeding on water balance, III, 565.
- MacBryde, C. M., Castrodale, D., Helwig, E. B., and Bierbaum, O., hepatic changes produced by oestrene, oestradiol, and diethyl-stilboestrol, III, 117.
See also Castrodale, D.
- McCraig, M., absorption of infra-red radiation by water vapour and carbon dioxide, I, 175.
- McCaleb, L. B. See King, E. Q.
- McCalla, T. M., why does H⁺ become toxic to soil bacteria ?, III, 61.
- McCallum, K. J., and Mayer, J. E., direct experimental determination of electron-affinity of chlorine, I, 110.
See also Mayer, M. G.
- MacCamy, E. T. See Fishback, H. R.
- McCance, R. A., and Widdowson, E. M., urinary calcium, magnesium, and phosphorus, III, 181. Mineral metabolism on dephytinised bread, III, 186. Mineral and vitamin requirements in relation to wartime dietary, III, 821.
See also Black, D. A. K., and Widdowson, E. M.
- McCarrell, J. D. See Beecher, H. K., and Polderman, H.
- McCarroll, H. R., physical therapy in early treatment of poliomyelitis, III, 466.
- McCarter, J. R., and Kanne, E. M., egg media for isolation of all three types of tubercle bacilli, III, 286.
- Kanne, E. M., and Hastings, E. G., precipitins for tuberculin proteins of acid-fast bacteria, III, 214.
- McCarter, W. S. W. See La Lande, W. A., jun.
- McCarthy, E. F., osmotic pressure of foetal horse serum-albumin, III, 87. Physiological factor in haemoglobinometry, III, 864.
- McCarthy, J. C. See Stone, J. B.
- MacCarthy, W., intravenous drip transfusion in infants, III, 868.
- McCartney, J. E., and Cruickshank, R., sterilisation of sulphonamides, III, 509.
- MacCarty, W. C., anatomical classification of goitre, III, 735.
See also Kirklin, B. R., and Miller, J. M.
- McCaughhey, W. J. See Barrett, R. L.
- McCausland, A. See McGee, L. C.
- McCausland, A. M., varicose veins in pregnancy, III, 231.
- McCavock, W., sealing fused silica tubes, I, 321.
- McCawley, E. L. See DeOrme, K. B.

- McCay, C. M. See Loosli, J. K.
- McChesney, E. W., comparison of hypercalcæmic effects of activated sterols in chick, III, 789.
- and Kocher, H., effects of large doses of activated sterols on serum-calcium, III, 548.
- See also Climenko, D. R.
- McClean, D., diffusing factors. II. Assay of hyaluronidase and correlation with skin diffusing activity, III, 683.
- Rogers, H. J., and Williams, B. W., diagnosis of wound infection by bacterial enzymes, III, 773.
- McClellan, D. S. See Schirmer, F. B.
- McClellan, J. T. See Turley, L. A.
- MacClement, W. D. See Smith, K. M.
- McClenahan, W. S., Tilden, E. B., and Hudson, C. S., products obtained from starch by action of amylase of *Bacillus macerans*, III, 142.
- McClendon, J. F., and Foster, W. C., goitre, iodine, and military strength. II., III, 21.
- Foster, W. C., and Supplee, G. C., inverse ratio between fluoride in food and drink and dental caries, III, 496.
- McClintock, J. C., Klinck, G. H., and Conrad, J. E., carcinoma of thyroid gland, III, 820.
- McClosky, W. T., Price, C. W., Van Winkle, W., jun., Welch, H., and Calvery, H. O., first U.S.P. collaborative study of pyrogens, III, 606.
- See also Welch, H.
- McClung, L. S. See Davis, W. A.
- McClure, G. Y. See Harris, A. H.
- McClure, R. D. See Fallis, L. S., and Schnedorf, J. G.
- McClure, W. B., role of colon organisms and their toxins in epidemic diarrhoea of newborn infant, III, 602.
- MacColl, A., internal rotation in gaseous molecules. I. and II., I, 298.
- McColley, E. S. See Alter, C. M.
- McCollum, E. V. See Mackenzie, C. G., and Shils, M. E.
- McComas, W. H., jun., and Rieman, W., 3rd, solubility of calcium oxalate monohydrate in water and neutral salt solutions at 25°, I, 123. Effect of pH on solubility of calcium oxalate, I, 123. Accurate determination of calcium, without reprecipitation, in presence of aluminium, iron, magnesium, manganese, phosphorus, sodium, and titanium, I, 137.
- McCombie, J. T. See Jones, E. R. H.
- McConnell, D., X-ray data on several phosphate minerals, I, 28. Isomorphism and isotypyism among silicates and phosphates, I, 170. Phosphatisation at Malpelo Island, Colombia, I, 289.
- McConnell, W. J., Fehnel, J. W., and Ferry, J. J., potential hazards of leather industry, III, 270.
- McConnell, W. V. See Astle, M. J.
- McCoord, A. B. See Breese, B. B., and Clausen, S. W.
- McCord, A. T., X-ray diffraction method, I, 43.
- McCord, C. P., Meek, S. F., Harrold, G. C., and Heussner, C. E., physiological properties of indium and its compounds, III, 834.
- See also Meek, S. F.
- McCord, W. M. See Bradish, R. F., and Stasney, J.
- McCorkle, M. R. See Dorinson, A., Hoerr, C. W., and Ralston, A. W.
- McCouch, G. P., Hughes, J., and Stewart, W. B., monkey (*Macaca mulatta*) after hemisection and subsequent trans-section of spinal cord, III, 794.
- McCoy, D. A., prevention of ear disability in industry; use of plastic mould, III, 642.
- McCoy, E. See Fontaine, F. E.
- McCoy, J. S. See Niederl, J. B.
- McCoy, K. M. See Barrette, P. C.
- McCoy, O. R., Downing, V. F., and Van Voorhis, S. N., penetration of radioactive phosphorus into encysted *Trichinella* larvae, III, 415.
- McCrady, M. H. See Archambault, J.
- McCrae, J., dilution process for determining pH with one-colour indicators, I, 234.
- MacCraken, F. L. See Sachs, E.
- McCrea, W. B. E., glioma of retina, III, 802.
- McCreedy, R. M. See Hassid, W. Z.
- McCreary, J. F. See May, C. D.
- McCreery, J., Lamb, M. W., and Bavousett, N. D., basal metabolism of normal college women, III, 827.
- McCrum, D. S. See Gardner, L. U.
- McCullagh, E. P., diabetes mellitus, III, 47. and Jones, R., effect of androgens on blood count of men, III, 34.
- and Lewis, L. A., comparison of effectiveness of methods of administering insulin, III, 111. Carbohydrate metabolism of patients [with hypogonadism] treated with methyl-testosterone, III, 121.
- and Proudfit, W. L., renal rickets, III, 486.
- See also Lewis, L. A.
- McCulloch, W. S. See Bailey, P., and Kennard, M. A.
- McCullough, J. D., spectrophotometric determination of dissociation constants of diphenyl-selenium dibromide and di-iodide, I, 61. See also Albrecht, G.
- McCullough, N. B., and Dick, L. A., staining procedure for use in *Brucella* opsonocytophagic test, III, 157. Physiological studies of *Brucella*. I. Quantitative accessory growth factor requirement of strains of *Brucella*. II. Accessory growth requirement of recently isolated strains of *Brucella abortus*, III, 355.
- McCune, D. J., Mason, H. H., and Clarke, H. T., intractable hypophosphatæmic rickets with renal glycosuria and acidosis (the Fanconi syndrome), III, 414.
- McCusker, P. A. See Kelley, C. J., and Lane, T. J.
- McCuskey, C. F., abdominal relaxation with combined regional and cyclopropane anaesthesia, III, 911.
- McDaniel, L. E., Woolley, D. W., and Peterson, W. H., growth factors for bacteria. VII. Nutrient requirements of butyl alcohol-producing bacteria, III, 205.
- McDaniel, P. W. See Cook, C. S.
- McDermott, L. J., development of human knee joint, III, 706.
- McDermott, W., Webster, B., Baker, R., Lockhart, J., and Tompsett, R., nutritional degeneration of optic nerve in rats: relation to tryptansamide amblyopia, III, 642.
- McDevitt, E., Dove, M. A., Dove, R. F., and Wright, I. S., selective filtration of vitamin-C by placenta, III, 325.
- McDiarmid, A. See Pattison, I. H.
- Macdonald, A. D. See Bergel, F.
- MacDonald, E. J. See Ritvo, M.
- Macdonald, G. A., potash-oligoclase in Hawaiian lavas, I, 188.
- MacDonald, H. See Davidson, C. S.
- McDonald, H. J., Kluender, A. F., and Lane, R. W., system ethyl alcohol-glycerol-carbon tetrachloride at 25°, I, 92.
- See also McMillan, W. R.
- McDonald, J. R., Broders, A. C., and Counsellor, V. S., sarcoma of endometrial stroma, III, 184.
- See also Woodruff, R.
- MacDonald, N. S., and Evans, W. L., synthesis of 5-D-glucosido-D-arabinose, II, 123.
- McDonald, P. R. See Machella, T. E.
- McDonald, P. T., bilateral thrombosis of posterior calcarine arteries with sparing of macular vision, III, 472.
- McDonald, R. H., multiple myeloma with nitrogen retention, III, 572.
- McDougall, E. I., and Herbert, P., quality of national loaf, III, 252.
- McDowall, F. H., detection of mastitis in New Zealand dairy herds. II. Factors influencing the bromothymol test, III, 832.
- McDowell, A. K. R., determination of lactose in milk, III, 120.
- MacDowell, E. C. See Bates, R. W.
- McEachern, D., thymus in relation to myasthenia gravis, III, 465.
- and Brophy, D., bradycardia in rats with thiamin deficiency, III, 334.
- McElligot, G. L. M. See Jefferiss, F. J. G.
- McElvain, S. M., Anthes, H. I., and Shapiro, S. H., keten acetals. XI. Pyrolysis of keten acetals and ortho-esters, II, 79.
- Bright, R. D., and Walters, P. M., constituents of volatile oil of catnip. II. Neutral components; nepetalic anhydride, II, 14.
- and Burkett, H., α -alkoxyvinyl- and α -alkoxyethyl-barbituric acids, II, 46.
- Clarke, R. L., and Jones, G. D., keten acetals. X. Elimination of hydrogen bromide from acetals of α -bromo-aldehydes; isopropyl- and *n*-propyl-keten diethyl acetal, II, 23.
- and Nelson, J. Walter, preparation of ortho-esters, II, 21.
- and Walters, P. M., preparation and properties of polyethoxethanes and their bromo-derivatives, II, 21.
- McEndy, D. P., Boon, M. C., and Fnirth, J., induction of leukæmia in mice by methyl-cholanthrene and X-rays, III, 401.
- Macey, H. H., apparatus for measurement of thermal expansion at temperatures up to 100°, I, 138.
- McEwen, C., use of high-fat and high-purine diets in diagnosis of gout, III, 580.
- McCadden, D. B., Weaver, R. H., and Scherago, M., sanitary significance of pectin-fermenting, lactose-fermenting, Gram-negative, non-spore-forming bacteria in water, III, 432.
- MacFadyen, J. A., determination of amino-acids in plasma by ninhydrin-carbon dioxide reaction without removal of proteins, III, 152.
- and Van Slyke, D. D., α -phenanthroline ferrous complex as indicator in eeric sulphate titration of blood-sugar, III, 928.
- MacFarlan, A. M. See Cruickshank, J. C.
- MacFarland, W. J., Tennant, R., and Liebow, A. D., obtaining plasma from birds, III, 302.
- Macfarlane, E. W. E., blood group reactions in [umbilical] cord bloods of Indians, Calcutta, India, III, 622.
- Macfarlane, H. M. See Charlesworth, E. H.
- Macfarlane, J. W., and Currie, J. P., idiopathic aplastic anæmia, III, 369.
- Macfarlane, V. H., behaviour of micro-organisms at subfreezing temperatures. III. Influence of sucrose and pH, III, 276.
- MacFate, R. P., guanidine and its relationship to muscular dystrophy, III, 96.
- McGarry, H. I. See Kronfeld, P. C.
- McGavack, T. H., regulation of reciprocal activity of deoxycorticosterone acetate and sodium in Addison's disease, III, 109. Angina-like pain: manifestation of male climacteric, III, 651.
- Benjamin, J. W., Klotz, S., and Speer, F. D., malignant pheochromocytoma of adrenal medulla (paraganglioma), III, 109.
- Boyd, L. J., and Gelvin, P., experimental modification of water and salt output in patients with diabetes insipidus, III, 180.
- and Reinstein, H., brachydactyly, polyphalangism, and brachyimetapodism in a moronic individual with microcephaly, internal frontal hyperostosis, and endogenous obesity, III, 2.
- McGavran, C. W., spastic irritable colon ("mucous colitis"), III, 484.
- McGee, J. M. See Van Rysselberghe, P.
- McGee, L. C., McCausland, A., Plume, C. A., and Marlett, N. C., metabolic disturbances in workers exposed to dinitrotoluene, III, 269.
- McGeorge, M. See Jenkins, J. A., and Smirk, F. H.
- McGibbon, C., and Glyn-Hughes, F., agranulo-cytosis following neoarsphenamine, III, 765.
- See also Nelson, R. B.
- McGibbon, J. E. G., nature of valvular action (passive opening) of Eustachian tube in relation to changes in atmospheric pressure and to aviation pressure deafness, III, 106.

- McGill, R. J., probable tetanus despite toxoid inoculation, III, 527.
- McGinn, C. E. See Lutz, R. E.
- McGinnis, J., Norris, L. C., and Heuser, G. F., unidentified nutritional factor required by the chick for feather pigmentation, III, 43. Effect of ethanalamine and betaine on perosin in chicks, III, 333.
- McGinty, D. A. See Seegers, W. H.
- McGoldrick, T. A. See Wilburne, M.
- McGovern, F. H., association of nerve deafness and retinitis pigmentosa, III, 315. See also Guyton, J. S.
- McGrath, J., chemical luminescence test for blood, III, 375.
- McGraw, A. B. See Schnedorf, J. G.
- McGraw, J. J. See Strumia, M. M.
- MacGregor, A. G. See Phemister, J.
- Macgregor, A. R., causes of foetal and neonatal death, III, 782.
- MacGregor, I. M., local sulphanilamide dermatitis, III, 509.
- MacGregor, J. K., hyperthyroid crisis, III, 881.
- MacGregor, W. S. See West, E.
- McGrew, F. C. See Adams, R.
- McGuinness, A. C., Stokes, J., jun., and Armstrong, J. G., vacuum-dried human sera in prevention and treatment of common communicable diseases, III, 925. See also Flossdorf, E. W.
- McGuire, G. See Lewis, J. M.
- McGunn, E. J., functional uterine bleeding, III, 115.
- Machaček, E., sulphathiazole treatment of acute septic endocarditis, III, 760.
- Machado, A. L. See Nachmanson, D.
- McHard, J. A. See Samsell, E. P.
- McHardy, G. See Browne, D. C.
- McHargue, J. S. See Hageman, R. H., and Rapp, K. E.
- Machella, T. E., Helm, J. D., and Chornock, F. W., relation of hippuric acid excretion to volume of urine, III, 247.
- and Higgins, G. M., effect of sulphanilamide on experimentally damaged liver, III, 48.
- and McDonald, P. R., failure of riboflavin therapy in patients with accepted picture of riboflavin deficiency, III, 576.
- McHenry, E. W. See Gavin, G., and Patterson, J. M.
- Machens, H. See Dornow, A.
- Machele, W., petrol intoxication, III, 139.
- Kitzmiller, K. V., Scott, E. W., and Treon, J. F., effect of inhalation of hydrogen chloride, III, 837.
- Largent, E. J., and Scott, E. W., absorption and excretion of fluorides. I. Normal fluoride balance, III, 757. See also Deichmann, W.
- Macht, D. I., phytopharmacological reactions of blood following treatment with sulphanilamide and derivatives, III, 341. Ichthyometric comparison of cobra venom, morphine, and saponins, III, 836.
- and Spencer, E. C., pharmacological interactions of cobra venom and aneurin, III, 139.
- Macias, F. T., Smith, R. G., and Martin, F. N., splenic contracting substance in orange seeds, III, 675.
- McIlroy, A. P. See Locke, A.
- McIlwain, H., bacterial inhibition by metabolite analogues. V. Reactions and antibacterial properties of *p*-diazine di-N-oxides, II, 309. Correlation of *in-vitro* and *in-vivo* drug action through specific antagonists: sulphanilamide and *p*-aminobenzoate, III, 132. Biochemistry and chemotherapy, III, 510. Anti-streptococcal action of iodinin; naphthaquinones and anthraquinones as its main natural antagonists, III, 693.
- and Hawking, F., chemotherapy by blocking bacterial nutrients, III, 761.
- McIndoe, A. H., and Tilley, A. R., propamidine in chronic streptococcal infections, III, 761.
- MacInnes, A. S. See West, E.
- MacInnes, D. A., effect of centrifugal fields on electromotive force of galvanic cells, I, 63. Ultracentrifuge, I, 72.
- McIntire, F. C., Riker, A. J., and Peterson, W. H., role of vitamins and metallic elements in nutrition of crown-gall organism, III, 279.
- Macintosh, F. C. See Emmens, C. W.
- McIntosh, J., and Selbie, F. R., zinc peroxide, proflavine, and penicillin in experimental *Cl. welchii* infections, III, 510.
- McIntosh, J. A. See Todhunter, E. N.
- McIntosh, J. F., classification and chemical pathogenesis of urinary calculi, III, 249. and Salter, R. W., qualitative examination of urinary calculi, III, 249.
- McIntyre, J. M. See Henderson, L. M., and Waisman, H. A.
- MacIntyre, R. S. See Collier, F. A.
- McIver, M. A., and Winter, E. A., deleterious effects of anoxia on liver of hyperthyroid animal, III, 381.
- McIvor, B. C., and Lucia, S. P., obtaining anti-Rh serum from guinea-pigs, III, 864.
- Mack, H. C., vaginal smear in diagnosis of ovarian failure as index to efficacy of endocrine therapy and as human assay method, III, 647.
- and Ale, T., appraisal of oestrogenic activity by vaginal glycogen index: comparison of oral and parenteral oestrone, III, 115.
- and Siddall, R. S., sulphodiocetyl succinate and maleic acid mixture in clinical contraception, III, 649.
- Mack, J. E., and Barkofsky, E. C., atomic beam apparatus for studying atomic spectra of gases, especially hydrogen, I, 209. See also Kratz, H. R., and Laporte, O.
- Mack, W. N. See Francis, T.
- Mackay, D. See Mutch, J. R.
- MacKay, E. M., significance of ketosis, III, 671. See also Clark, W. G.
- MacKay, H., Patton, M. B., Ohlson, M. A., Pittman, M. S., Leverton, R. M., Marsh, A. G., Stearns, G., and Cox, G., calcium, phosphorus, and nitrogen metabolism of young college women, III, 415.
- McKay, H. A. C., kinetics of exchange reactions of the type $R_1 + I^* \rightarrow R_1^* + I'$ in alcoholic solution, I, 204.
- Mackay, H. M. M., Dobbs, R. H., Wills, L., and Bingham, K., anaemia in women and children on wartime diets, III, 158. Nutritional anaemia in children and women: a wartime problem, III, 786. See also Wills, L.
- Mackay, I. F. S. See Harper, A. A.
- McKee, C. M., and Rake, G., activity of penicillin against sulphonamide-resistant pneumococci, III, 338. See also Rake, G.
- McKee, S. H., primary sarcoma of iris (malignant melanoma), III, 311.
- McKee, T. L., restoration of binocular vision after unilateral cataract extraction, III, 800.
- McKeever, C. H. See Fuson, R. C.
- McKellar, A., intensity measurements on emission bands in cometary spectra, I, 174.
- McKelvey, J. L. See Samuels, L. T.
- McKendree, C. A., Wortis, S. B., and Soltz, S. E., [multiple areas of] intracerebral calcification, III, 15.
- McKenna, J. F. See Campbell, K. N.
- McKenna, R. D. See Meakins, J. C.
- MacKenzie, C. G., and McCollum, E. V., muscular dystrophy in absence of testicular degeneration in vitamin-E deficiency, III, 551. Effect of oral and parenteral administration of vitamin-E on creatinuria and symptoms of dystrophic rabbits, III, 635.
- MacKenzie, D. W., and Seng, M. I., urological aspects of hypertension, III, 162.
- McKenzie, F. F. See Winchester, C. F.
- MacKenzie, G. M., Pike, R. M., and Swinney, R. E., virulence of *Salmonella typhimurium*. II. Polysaccharide antigens of virulent and avirulent strains, III, 214. See also Pike, R. M.
- Mackenzie, G. W., compression and aspiration nystagmus, III, 21.
- Mackenzie, H. A. E., and Tompkins, F. C., kinetics of autoxidation of inorganic reducing agents. I. Titanous chloride, I, 38.
- Mackenzie, J. G., functions of the non-acoustic labyrinth, III, 805.
- Mackenzie, J. W. A., absorption of drugs from rectum, III, 507. Nutrient enema, III, 744.
- McKenzie, P. See Anderson, T.
- McKhann, C. F., Spector, S., and Meserve, E. R., association of gastrointestinal allergy with coeliac syndrome, III, 892.
- McKibbin, J. M. See Schaefer, A. E.
- McKie, D., Newton's chemical philosophy, I, 73.
- Mackie, T. T., specificity of agglutinin reaction for *Shigella dysenteriae*. II. Agglutinin absorption relationships between *S. dysenteriae* and *Escherichia coli*, III, 212. See also Mills, M. A.
- McKinley, W. A., and Magoun, H. W., bulbar projection of trigemina nerve, III, 724. See also Beaton, L. E., and Magoun, H. W.
- McKinney, A. R., decomposition of ethylene and carbon monoxide on metallic catalysts, I, 205.
- McKinney, C. D., jun., and Hall, R. T., electro-metric apparatus for use with Karl Fischer method for determination of water, I, 265.
- Mackinney, G., and Sugihara, J., riboflavin [and aneurin content] of fruits and vegetables, III, 42. See also Aronoff, S.
- McKinney, R. A., and Mellon, R. R., dissociative aspects of bacteriostatic action of sulphonamide compounds, III, 436.
- McKissock, W. See Fleming, G. W. T. H.
- Mackler, H. S. See Fischer, A. E.
- McKnight, E. T., differential density of ground water in ore deposition, I, 168.
- MacKnight, R. H., retaining oil between [microscope] slide and condenser, III, 295.
- McKusick, B. C. See Fuson, R. C.
- MacLachlan, E. A. See Butler, A. M., and Talbot, N. B.
- MacLachlan, P. L., fat metabolism in lungs, III, 192.
- McLaughlin, C. W. See Davis, H. H.
- McLaughlin, D. B., spectral stages of novæ, I, 77.
- Maclay, W. D. See Rietz, E.
- McLean, D., and Rowland, I. W., role of hyaluronidase in fertilisation, III, 113.
- MacLean, D. L. See Fraser, D. T.
- MacLean, F. J. See Maegraith, B. G.
- MacLean, H. V. See Grinker, R. R.
- Maclean, I. S. See Arcus, C. L.
- McLean, J. A., possibility of air embolism when blood is taken from donor with "Soluvac" transfusion bottle, III, 457.
- McLean, M. J. See Bergmann, W.
- McLean, R. See Jetter, W. W.
- McLeese, S. F. de C. See Hennion, G. F.
- McLendon, S. B., experimental attempts to infect man with avian malaria, III, 430. Dilantin sodium and phenobarbital in [negro] epileptics, III, 588.
- MacLennan, J. D., sulphonamides and streptococcal infection of muscle, III, 906. See also Boyd, J. S. K.
- MacLennan, K. See Oldham, H.
- MacLeod, C. M., and Mirick, G. S., quantitative determination of bacteriostatic effect of sulphonamide drugs on pneumococci, III, 212.
- MacLeod, D. See Burrows, H.
- MacLeod, F. L. See Williams, D. E.
- MacLeod, J. See Climenko, D. R.
- MacLeod, J. W., types *mitis*, *intermedius*, and *gravis* of *Corynebacterium diphtheriae*, III, 603. See also Burton, H.
- MacLeod, L. D. See Reiss, M.
- McLester, J. S. See Jolliffe, N.
- McLetchie, J. L., treatment of early cases of Nigerian trypanosomiasis with 4:4'-diamidino-stilbene, III, 419.
- McLetchie, N. G. B., renal lesions in case of excessive vomiting, III, 398. See also Dunn, J. S., and Sheehan, H. L.

- McLure, R. S. See Vosburgh, W. C.
 McMahon, S. See Weyrauch, H. M., jun.
 McManus, J. F. A., juxtaglomerular complex, III, 452.
 McManus, T. B., and Bender, C. B., comparison of acetic acid, fed as triacetin, with glucose as nutrient in feeds, III, 496.
 McMaster, P. D., lymphatic participation in cutaneous phenomena, III, 864.
 McMeekin, T. L., and Warner, R. C., hydration of β -lactoglobulin crystals, III, 55.
 McMichael, J., management of wound shock, III, 378.
 Sharpey-Schafer, E. P., Mollison, P. L., and Vaughan, J. M., blood volume in chronic anaemia, III, 862.
 MacMillan, D. P. See Bauer, S. H.
 McMillan, R. B., coeliac disease with ariboflavinoisis, III, 665.
 McMillan, W. R., and McDonald, H. J., analytical data for systems carbon tetrachloride-acetic acid-benzene and carbon tetrachloride-tetrachloroethylene, II, 116.
 McMurdie, H. F. See Alexander, L. T., and Wells, L. S.
 McMurry, H. L., long-wave-length spectra of saturated carboxylic acids, esters, and salts, I, 30.
 McNabb, W. M., and Skolnik, H., volumetric determination of iron and titanium, I, 24.
 See also Levine, V.
 McNair, J. J., and Jahn, E. C., properties of lignin esters, II, 346.
 McNally, W. D., encephalopathy from inhaling fumes from burning storage battery boxes, III, 834. Effect of varying doses of a commercial phenothiazine on lambs, III, 910.
 McNaughton, J. See De Waal, H. L.
 Macnaughton-Jones, H., cochlear response and mechanism of cochlea, III, 387.
 MacNeal, P. S., asparagine bacteriophage in treatment of acute haemogenous osteomyelitis, III, 694.
 MacNeal, W. J., therapeutic use of bacteriophages, III, 67.
 and Farnsworth, N. C., evaluation of antibiotics and other anti-infectious agents, III, 761.
 See also Dunham, W. B.
 McNealy, R. W., Gubler, J. A., and Tuft, E. H., dietary deficiencies in surgical patients, III, 253.
 See also Thompson, W. O.
 McNee, G. Z. I., and Reid, J., vitamin-C nutrition, III, 501.
 McNeely, W. H. See Zechmeister, L.
 McNeil, C., bridgeheads of child health in five ages of childhood, III, 657.
 See also Klenndshoj, N. C.
 McNeil, D. See Baddiley, J.
 McNeil, E. W. See Fox, S. W.
 MacNevin, W. M., and Balis, E. W., deviations between observed and calculated polarographic diffusion currents, I, 203.
 and Brown, G. H., quantitative decomposition of organic bromine and iodine compounds by lime fusion method, II, 76.
 and Varner, J. E., absorption tube tares in carbon and hydrogen micro-determinations, II, 180.
 McNutt, C. W., and Sawin, P. B., hereditary variations in vena cava inferior of the rabbit, III, 542.
 McOmie, W. A. See Salle, A. J.
 Macoun, S. J. R. See Prunty, F. T. G.
 McPhail, F. L., water exchange in relation to toxæmias of pregnancy, III, 326.
 McPhail, M. K., and Read, H. C., regeneration of adrenal gland following enucleation and transplantation, with reference to X-zone, III, 322. Mouse adrenal. I. Development, degeneration, and regeneration of X-zone. II. Action of hormonal substances on adrenal (action on X-zone), III, 390.
 McPhee, W. D. See Adams, R.
 Macpherson, A. I. S., aetiology and prophylaxis of prothrombin deficiency and haemorrhagic disease in new-born, III, 85.
 McPherson, J. F. See Fuson, R. C.
 McQuarrie, I., Anderson, J. A., and Ziegler, M. R., antagonistic effects of posterior pituitary and cortico-adrenal hormones in epileptic subject, III, 99.
 McRae, J. A., Charlesworth, E. H., and Alexander, D. S., synthesis of 2-keto-cyclohexylsuccinic acid and related substances. I. Syntheses involving cyclohexene oxide, II, 165.
 See also Charlesworth, E. H.
 Macrae, T. F., Henry, K. M., and Kon, S. K., biological value of mixed proteins in food in Royal Air Forces messes, III, 661.
 See also Peters, R. A.
 McReynolds, J. P. See Marchi, L. E.
 Macri, C. See Javert, C. T.
 McShan, W. H. See Meyer, R. K.
 McSorley, J. G. See Davidson, L. S. P.
 McSwain, B. See Bird, R. M., and Maisel, B.
 Macsween, J. C., vacuum regulator, I, 187.
 McVay, C. B. See Anson, B. J.
 McVeigh, I. See Burkholder, P. R.
 McVey, E. See Butler, C. D.
 McVicar, R. W., and Berryman, G. H., nicotinic acid in foods, III, 410.
 McWhirter, R., post-operative radiotherapy in carcinoma of breast, III, 572.
 MacWilliam, E. A., and Gordon, A. R., thermodynamics of aqueous potassium bromide at 25° from e.m.f. measurements on cells with transference, I, 203.
 Macy, I. G., principal mineral elements in nutrition, III, 574.
 See also Beach, E. F., Hummel, F. C., Teague, D. M., and Williams, H. H.
 Madden, J. H. M. See Davis, C. D.
 Madden, S. C., Carter, J. R., Kattus, A. A., jun., Miller, L. L., and Whipple, G. H., ten amino-acids essential for plasma-protein production effective orally or intravenously, III, 374.
 Maddock, A. J., circuits employing thyratrons and ignitrons, I, 138.
 Maddock, W. G. See Coller, F. A., and Thieme, T.
 Mader, B., colorimetric determination of cobalt as cobalt thiocyanate complex, I, 70.
 Madinaveitia, (Mrs.) A., Russell, P. B., and Todd, A. R., *Cannabis indica*. XI. Alkaline-soluble portion of American hemp resin, II, 15.
 Madinaveitia, J. See Lythgoe, B.
 Madonick, M. J., and Lissman, J., tryptophan test [in cerebrospinal fluid] in general paresis, III, 308.
 Madson, L. L., Hall, S. R., and Converse, H. T., cystic pituitary in young cattle with vitamin-A deficiency, III, 407.
 Maeker, H., continuous spectrum of the carbon arc light, II, I, 213.
 Maeder, A. See Ruggli, P.
 Maeder, E. See Lauener, P.
 Maegraith, B. G., Findlay, G. M., and Martin, N. H., lysis of red blood cells, III, 302. Red blood cell destruction, III, 545. Lytic agent in human tissue and sera, III, 863.
 and MacLean, F. J., production of hypertension in rabbits by intrarenal injection of kieselguhr white, III, 93.
 Maes, J. P. See Pappenheimer, J. R.
 Mafei, S. See Crippa, G. B.
 Magalhaes, B. F., and Rocha, A., electrocardiography of normal guinea-pigs, III, 630.
 See also Freire, S. A.
 Magasanik, B. See Silver, S.
 Magat, M. A., and Lebzon, E. G., specific action of carcinogenic hydrocarbons in tissue cultures of mammals, III, 182.
 Magee, J. L. See Eyring, H.
 Magee, M. Z. See French, H. S.
 Magel, T. T. See Lewis, G. N.
 Mager, A., composition of eriodictyol glycoside, II, 4.
 Magid, M. A., sulphonamides in gonorrhœa, III, 263.
 Magiday, M. See Lisa, J. R.
 Magladery, J. W., and Solandt, D. Y., relation of fibrillation to acetylcholine and potassium sensitivity in denervated skeletal muscle, III, 792.
 See also Solandt, D. Y.
 Maglio, M. M., and Fazio, F., determination of chloride in presence of hydrosulphide or sulphide ion, I, 234.
 Magneli, A., crystal structure of lead metantimonate and isomorphous compounds, I, 146.
 Magness, J. R., and Batjer, L. P., modifying the biennial bearing habit in apples by spraying to prevent fruit set, III, 537.
 See also Batjer, L. P.
 Magnus-Levy, A., basal metabolism in same person after 50-year interval, III, 192.
 Magnuson, H. J., and Raulston, B. O., iron content of skin in haemochromatosis, III, 161.
 Magoon, C. A. See Myers, A. T.
 Magoun, H. W., and Beaton, L. E., salivatory motor nuclei in monkey, III, 98.
 and McKinley, W. A., termination of ascending trigeminal and spinal tracts in thalamus of cat, III, 795.
 and Ransom, M., supraoptic decussations in cat and monkey, III, 383.
 See also McKinley, W. A.
 Magy, D. B. See Marx, W.
 Mahan, J. E. See Adams, R.
 Mahanna, D. L. See Edelmann, A.
 Mahdihassan, S., effect of nutrition and climate on rat leprosy, III, 494. Architecture of the lac cell, III, 544. Non-resinous secretions of lac insects, III, 544.
 Maher, M. M., Zinniger, M. M., Schiff, L., and Shapiro, N., observations on gastric and peptic ulcer, III, 483.
 Mahl, H., ultramicroscopic surface photography by "replica" method, I, 25. Electron microscopy with electrostatic lenses, I, 72. Thermally prepared aluminium oxide films, I, 139. Electrostatic electron microscope and its applications in colloid chemistry, I, 287.
 and Pendzich, A., electron reflecting microscope; a new ultra-microscope, I, 319.
 and Stranski, I. N., etching patterns on aluminium surfaces, I, I, 33.
 Mahr, C., [reinecke-thiocarbamide complexes] in colorimetric analysis, I, 236.
 Mahr, M. M., precipitin reactions to *Monezia* species, III, 696.
 Maican, M. See Nenitzescu, C. D.
 Maier, C., and Grumbach, A., immunity reactions as measure of sulphanilamide therapy in pneumonia, III, 133.
 Maier, F. J. See Connor, P. J.
 Maier, I. See Cruickshank, J. C.
 Maier, J., and Coggeshall, L. T., respiration of malaria plasmodia, III, 275.
 See also Coggeshall, L. T.
 Maier, M. S., and Nelson, H. R., self-diffusion of copper, I, 149.
 Maier-Leibnitz, H., the coincidence method and its use in problems of nuclear physics, I, 102.
 Mailer, W. A., incidence of colour deficiency in females, III, 314.
 Main, R. J. See Pace, N.
 Maisel, B., McSwain, B., and Glenn, F., effects of administration of sodium sulphadiazine to dogs, III, 584.
 Maiser, F. E., and Somkin, E., treatment of asthmatic paroxysm with nicotinic acid, III, 516.
 Maizels, M., phosphate, base, and haemolysis in stored blood, III, 863.
 Majantz, L. S., selection rules for molecular vibration spectra by the classical method, I, 80. Vibration of polyatomic molecules, I, 80.
 Major, R. H. See Weber, C. J.
 Majumdar, A. K., organic analytical reagents containing sulphur, I, 165. Quinaldic acid as a reagent for the separation of copper and cadmium, I, 264.
 See also Gupta, J.

- Majumdar, D. N., blood groups of Bhils of Gujarat, III, 82.
- Majumdar, S. K., and Palit, R. M., glass systems; X-ray analysis of sodium chloride dissolved in boron trioxide glass, I, 194.
- and Sarma, A. K., glass systems; refractometric measurements of polar crystals in B_2O_3 glass, I, 87.
- Makokin, I. A., alkali fusion reactions with the heavy oxygen isotope, I, 68.
- See also Brodski, A. È.
- Malanga, C. See Seeler, A. O.
- Malani, N. H. See Varma, P. S.
- Malatesta, L., tervalent salts of copper and silver, II, I, 40. Reaction between nitric oxide and vanadous salts, I, 96. Structure of μ -peroxy-Co^{III}-Co^V-ammines, I, 181.
- and Pizzotti, R., nitrosyl and hydroxylamine derivatives of Ni(CN)₂, I, 136.
- Malavya, B. K., and Dutt, S., essential oil of seeds of *Carum roxburghianum*, Benth., III, 295.
- Malbran, J. L. See Vidal, F.
- Malcolm, J. See Stableforth, A. W.
- Malcolm, R. B., and Benson, R. E., branchial cysts, III, 366.
- Maldeis, H. J., post mortem examination in cases of suspected poisoning, III, 766.
- Maletz, L., and Gardner, A., alcoholic deterioration, III, 677.
- Malijantz, A. A. See Malischek, V. T.
- Maliniac, J. W., breast hypertrophy in male, III, 890.
- Maliphant, R. G., multiple primary cancers of uterus, III, 403.
- Malis, G. J., biological characteristics of blood in schizophrenia, III, 161.
- Malischek, V. T., Malijantz, A. A., and Reinfeld, E. A., presence of sulphur bacteria in "pink" layer waters of Surachani petroleum deposit and geochemical importance of this factor, I, 27.
- Malkiel, S., and Mason, J. P., $\alpha\alpha$ -trichloro- γ -nitro- β -hydroxyalkanes and their reduction products, II, 79. Reactions of 4- β -chloroethylmorpholine and rates of reaction of 4- β -chloroethylmorpholine and other halides with sodium propoxide, II, 343.
- Mallach, J. F., Finkelman, I., Arieff, A. J., and Roberts, R. C., electrocardiographic changes resulting from dilantin medication, III, 833.
- See also Marquardt, G. H.
- Mallatt, R. C. See Tarbell, D. S.
- Mallen, K. C., benzyl benzoate in scabies, III, 419.
- Mallery, O. T., jun. See Bethell, F. H.
- Mallmann, W. L., Botwright, W. E., and Churchill, E. S., selective bacteriostatic effect of slow oxidising agents, III, 430.
- Malmgren, H. See Lamm, O.
- Malmo, R. B., interference factor in delayed response in monkeys after removal of frontal lobes, III, 14.
- Maloney, A. H., glucophylline, III, 423.
- Malthby, G. L. See Gibbs, F. A.
- Maltzev, A. F., device for determining kinetics of solution of metals, I, 239.
- Malnf, N. S. R., water excretion by crayfish, III, 37. Decerebrate rigidity in bat, III, 795.
- Mampell, K., high mutation frequency in *Drosophila pseudo-obscura*, III, 708.
- Man, E. B., Smirnow, A. E., Gildea, E. F., and Peters, J. P., serum-iodine fractions in hyperthyroidism, III, 557.
- See also Winkler, A. W.
- Manchester, R. C., clinical manifestations and diagnosis of chronic brucellosis, III, 210.
- Manchester, T. C., effect of orange and lemon juices on activity of proteolytic enzymes, III, 27.
- See also Baier, W. E.
- Mancini, R. E., and Celani-Barry, R., glycogen in leucocytes fixed by Altmann-Gersh freezing-drying method, III, 788.
- Mandel, E. E. See Fox, T. T.
- Mandel, I. See Lehrman, L.
- Mandelbaum, H., Berger, L., Lederer, M., Sobel A. E., and Kaye, I. A., Gaucher's disease; case with haemolytic anaemia and marked thrombopenia; improvement after removal of spleen weighing 6822 g., lipin analysis of spleen, III, 86.
- Mandelbaum, J., and Schlessinger, I., absorption of vitamin-A through human skin, III, 187.
- See also Lewis, S. D.
- Mandelbaum, T., Candel, S., and Millman S., hypothyroidism, hyperlipæmia, and carotenæmia, III, 107.
- Mandeville, C. E., γ -rays from ^{24}Na , I, 47. γ -Rays from ^{48}Sc , I, 112. γ -Rays from As, I, 174. γ -Rays from ^{24}Na and ^{140}La , I, 247.
- Mandl, F. See Zondek, B.
- Mandy, A. J. See Mandy, T. E.
- Mandy, T. E., and Mandy, A. J., testosterone propionate in gynaecological and obstetric disorders, III, 742.
- Manegold, E., Komagata, S., and Albrecht, E., capillary systems. XIX/II. Canal number distribution curve for polycapillary canal systems; theoretical, I, 276.
- Mangini, A., and Colonna, M., naphthyridines. I. Derivatives of 4-phenyl-1:8-naphthyridine. II. Reactivity of 2:7-dichloro-4-phenyl-1:8-naphthyridine, II, 142.
- Mangun, G. H. See Wilson, R.
- Manigault, P., and Tsai, B., electromagnetically compensated micro-balance, I, 167.
- Manjunath, B. L., and Shadaksharawamy, M., alkaloids of fruit of *Solanum xanthocarpum*, II, 18.
- See also Lakshminarasimhaiah, A.
- Mann, D. S., orthoptic treatment of anomalous projection, III, 469.
- Mann, F. C., portal circulation and restoration of liver after partial removal, III, 485.
- Heilman, D., and Herrell, W. E., effect of serum on haemolysis by gramicidin and tyrocidine, III, 771.
- Mann, F. G., Holliman, F. G., and Lyon, D. R., heterocyclic systems, II, 49.
- See also Crowther, A. F., Holliman, F. G., and Lyon, D. R.
- Mann, H., and Mayer, M. D., uterine electrocardiogram, III, 549.
- Mann, I., and Pullinger, B. D., pathology of cholesterol and fat deposition in mustard gas injuries of cornea, III, 102.
- See also Pullinger, B. D.
- Mann, J. See David, W. T.
- Mann, L. S., and Welker, W. H., specific precipitin antisera for protein of cancer tissue. I. and II. Application of *in vivo* absorption, III, 897.
- Mann, T., phosphorus metabolism in moulds, III, 770.
- Mann, T. B., separation of vitamin-A from xanthophylls in presence of egg yolk sterols, III, 822.
- Manning, G. J. See Sober, H. A.
- Mannessier-Mamel, (Signa.) A., action of phenylhydrazine on saccharin and thiocaccharin, II, 48.
- Mannich, C., 2-methylenecyclohexanone, II, 330. Rearrangement of "dimeric 2-methylenecyclohexanone" by acids, II, 373. "Dimeric 2-methylenecyclohexanone," II, 373.
- Manning, M. F., electronic energy bands in body-centred iron, I, 195.
- See also Greene, J. B.
- Manning, W. M. See Dutton, H. J., and Strain, H. H.
- Manov, G. G. See Bates, R. G.
- Manresa, M., jun. See Becker, E. R.
- Mansbacher, K., familial eunuchoid gigantism, III, 743.
- Mansfeld, G., hormonal factors of chemical temperature regulation and two hitherto unknown hormones of thyroid gland, III, 881.
- Mansfield, G. R., geology of phosphate deposits in the United States, I, 323.
- Manshele, M. E. See Filippova, N. S.
- Manske, R. H. F., alkaloids of fumariaceous plants. XXXV. *Corydalis platicarpa*, Makino, II, 176. Alkaloid from *Menispermum canadense*, L., II, 177. Alkaloids of papaveraceous plants. XXXVIII. *Bocconia arborea*, Wats., II, 312. Natural occurrence of 3-methoxypyridine III and Marion, L., alkaloids of *Thermonecrophilia* (Nutt.), Richards, II, 311. Alkaloids of *Lycopodium* species. III. *Lycopodium annotinum*, L., II, 344.
- Manson-Bahr, P., malaria in wartime, III, 510.
- Mantel, E., effect of different forms of nitrogen on nitrogen metabolism of radishes in p-t culture, III, 853.
- Manwell, R. D., low-temperature freezing of malaria parasites, III, 522.
- Manzoni-Ansidei, R., and Travagli, G., Raman spectra of thiazole and its derivatives I. Thiazole. II. Mono- and di-substituted derivatives of thiazole, I, 31.
- Mapson, L. W., and Mawson, C. A., stability of ascorbic acid in metaphosphoric acid extracts III, 257.
- Marais, D. P., asthma. I. Treatment, III, 95.
- Marais, J. L. C. See Backeberg, O. G.
- Marangoni, B. A. See Burstein, C. L.
- Maraville, L. F. See Redlich, O.
- Marberg, K. See Reiter, R.
- Marble, A. See Bailey, C. C., and Joslin, E. P.
- Marble, J. P., possible age of allanite from Whiteface mountain, Essex Co., N.Y., I, 107. At. wt. of lead from a second sample of pitchblende, Great Bear Lake N.W.T., Canada, I, 111.
- and Glass, (Miss) J. J., new data on thortveitite, I, 188.
- Marburg, O., primary endings of optic nerve in man and animals, III, 20.
- and Schwartzman, G., brain reactions to bacterial filtrates potent in eliciting local tissue reactivity, III, 690.
- Marcel, M. P., chemotherapy of acute haemolytic streptococcal nephritis and of typhoid and paratyphoid, III, 830.
- Marcellus, F. N. See Motzok, I.
- Marchetti, A. A. See Traut, H. F.
- Marchetti, E. See Serono, C.
- Marchi, L. E., Fernelius, W. C., and McReynolds, J. P., stereochemistry of co-ordination number eight, I, 194.
- and McReynolds, J. P., optical activity of potassium tetra-oxalato-uranium-IV, I, 194. Hydrate isomerism in the hydrated chromic chlorides; preparation of triethylendiaminechromic chloride from hexa-aquo chromic chloride, I, 207.
- Marcus, P. L. See Scupham, G. W.
- Marcuse, R., fermentation with Lebedev's yeast extract; loss of activity and action of phosphate, III, 599.
- See also Runnstrom, J.
- Marcy, L. F. See Voris, Le R.
- Marenzi, A. D., and Cardini, C. E., colorimetric determination of choline, III, 616. Determination of blood-phospholipins, III, 628, 789.
- and Costoya, M. A., obtaining alveolar air, III, 871.
- Maresch, E. See Stetter, G.
- Margenau, H., forces between hydrogen molecules, I, 250.
- Margolena, L. A., and Hansen, D. A., *Propionibacterium rubrum* from dairy cheese, III, 208.
- Margoles, C. See Prinzmetal, M.
- Margolin, G. I., effect of visual and taste stimuli on muscular tonus in man, III, 167.
- Margolin, S., and Kubie, L. S., acoustic respiograph; study of respiration through graphic recording of breath sounds, III, 632.
- See also Engel, G. L.
- Margot, A., and Reichstein, T., *Primula saponin*, II, 19.
- Margulis, A. E. See Farber, J. E.
- Marhuenda, P. See Tey, A.

- Marine, D.,** and **Rosen, S. H.**, action of iodine and thyroxine on excretion of androgenic substances in thyroid diseases, III, 556.
Sex hormones and lymphomatosis in fowls, III, 570.
 See also **Baumann, E. J.**
- Marinelli, L. D.,** and **Goldschmidt, B.**, concentration of ^{32}P in superficial tissues of living patients, III, 505.
 See also **Fano, U.**
- Marini-Bettolo, G. B.**, action of diazo-compounds on quinones. I. Preparation of diphenyl derivatives, II, 88. Furylchromones, II, 139. Styrylchromones, II, 169.
 and **Rossi, C.**, action of diazo-compounds on quinones. II. Reaction between diazo-compounds and naphthaquinones: preparation of phenylnaphthalenes, II, 165.
 See also **Baroni, A.**
- Marino, S. A.** See **Atkinson, E. R.**
- Marion, L.** See **Manske, R. H. F.**
- Maris, E. P.,** **Rake, G.,** **Stokes, J., jun.,** **Shaffer, M. F.,** and **O'Neil, G. C.**, results of chance and planned exposure to unmodified measles virus in children previously inoculated with egg-passage measles virus, III, 610.
 See also **Stokes, J., jun.**
- Mark, H.** See **Goldfinger, G.**, and **Sookne, A. M.**
Mark, J., inactivation of deoxycorticosterone acetate, III, 390.
- Mark, P. F.**, cerebral haemorrhage in haemophilia, III, 458.
- Marker, R. E.,** **Crooks, H. M., jun.,** **Wagner, R. B.,** and **Wittbecker, E. L.**, sterols. CLI. Rearrangement of 17:21-dibromoallopregnan-3(β)-ol-20-one acetate, II, 41.
- Goldsmith, D. P. J.,** **Ruof, C. H.,** **Ulshafer, P. R.,** and **Wagner, R. B.**, sterols. CLIII—CLVI, and CLVIII. Sapogenins. LXV. Kryptogenin, a sapogenin from *Beth* root. LXVI. Sapogenin of *Trigonella foenum-graecum*. LXVII. Pennogenin, nologenin and fesogenin, three new sapogenins from *Beth* root. LXVIII. Steroidal sapogenin from *Balanites aegyptica*, Wall. LXX. Structure of lilagenin, II, 239, 304, 333.
- Goldsmith, D. P. J.,** **Ruof, C. H.,** **Ulshafer, P. R.,** **Wagner, R. B.,** and **Wittbecker, E. L.**, sterols. CLVII. Sapogenins. LXIX. Isolation and structures of thirteen new steroidal sapogenins; new sources for known sapogenins, II, 304.
- Turner, D. L.,** and **Ulshafer, P. R.**, sterols. CL. Sapogenins. LXIII. Position of hydroxyl groups in digitogenin, II, 14.
 and **Wagner, R. B.**, sterols. CXLIX. Hypoiodite oxidation of pregnan- and pregnen-clones, II, 14.
- Wagner, R. B.,** and **Wittbecker, E. L.**, sterols. CLII. Rearrangement of 16:17-dibromopregnan-3(β)-ol-20-one, II, 41.
- Markay, R. L.,** **Culbertson, C. S.,** and **Giordano, A. S.**, staining of intestinal parasites, III, 453.
- Markham, F. S.** See **Hudson, N. P.**
- Markham, J. D.,** and **Bloom, N.**, electrocardiographic changes in malignant hypertension, III, 90.
- Markham, M. J.** See **Goldman, A.**, and **Goldman, S. F.**
- Markham, R.**, steam-distillation apparatus for micro-Kjeldahl analysis, III, 76.
- Markin, L.** See **Kyes, P.**
- Markley, G. M.**, experimental production of brain abscess, III, 552.
- Markoff, N. G.**, clinical use of dimethylacryl-sulphanilamide, III, 416.
- Markov, V. P.**, compressibility of gas mixtures. II. Equation of state for gas mixtures, I, 121.
- Markova, G. S.,** and **Schattenstein, A. I.**, kinetics of amination of organic halides in liquid ammonia, I, 65.
- Marks, H. H.** See **Dublin, L. I.**, and **Fischer, A. E.**
- Markson, D. E.** See **Osborne, S. L.**
- Markus, R.** See **Plattner, P. A.**
- Markwood, L. N.**, determination of nicotine and nornicotine in mixtures, II, 316.
- Maron, S. H.,** and **Turnbull, D.**, equation of state for gases at high pressures involving only critical constants, I, 9.
 See also **Turnbull, D.**
- Marples, E.**, creatinuria of premature infants, III, 398.
 See also **Benjamin, H. R.**, and **Dann, M.**
- Marquardt, G. H.,** **Mallach, J. F.**, and **Werch, S. C.**, cardiovascular effect of trichloroethylene, III, 765.
- Marquez, M.**, bicylindric combinations in exploration of astigmatism, III, 309.
- Marrack, J. R.** See **Booth, R. G.**
- Marriott, R. H.**, descriptions of emulsions, I, 125.
- Marriott, W. R. V.**, analysis for lead in urine, III, 249.
- Marron, T. U.**, errors in cerebrospinal fluid protein estimation with sulphasalicylic acid reagent, III, 16.
- Marrus, J.** See **Friedman, B.**
- Marsden, E.** See **Hodgson, H. H.**
- Marsden, R. J. B.**, red colouring matter from green leaves of spinach beet, III, 75.
- Bainbridge, J. M.,** and **Morris, A.**, systems phenol-glucose β -penta-acetate, phenol-cellulose α -octa-acetate, and ρ -nitropheno-cellulose α -octa-acetate, I, 92.
- Marsh, A. G.** See **Leverton, R. M.**, and **McKay, H.**
- Marsh, C.** See **Courville, C. B.**
- Marsh, D. F.** See **Leake, C. D.**
- Marsh, J. K.**, rare earth metal amalgams. III. Separation of ytterbium from its neighbours, I, 96. Yttrium-group oxalates, I, 96.
- Marsh, R. L.** See **Booher, L. E.**
- Marshak, A.**, effects of X-rays and neutrons on mouse lymphoma chromosomes [in different stages of nuclear cycle], III, 571.
- Marshall, A. L. F., jun.,** and **Bauer, C. W.**, fate of salol in duodenum, III, 674.
- Marshall, C. E.**, physical constitution of coal and related research in Great Britain, I, 76.
 and **Krinbill, C. A.**, clays as colloidal electrolytes, I, 126.
 See also **Caldwell, O. G.**
- Marshall, E. K.,** **Litchfield, J. T.,** **White, H. J.,** **Bratton, A. C.,** and **Shepherd, R. G.**, comparative therapeutic activity of sulphonamides against bacterial infections in mice, III, 416.
- Marshall, E. R.,** **Kuck, J. A.,** and **Elderfield, R. C.**, lactones related to the cardiac aglycones. X. Synthesis of simple, hydroxylated β -substituted $\Delta^{\alpha\beta}$ -butenolides, II, 33.
- Marshall, F. H. A.**, oestrous cycle in illuminated ferrets, III, 171.
- Marshall, G. E.,** **Childers, N. F.,** and **Brody, H. W.**, effects of leafhopper feeding injury on apparent photosynthesis and transpiration of apple leaves, III, 149.
- Marshall, J., jun.** See **Dicke, R. H.**
- Marshall, M. S.,** and **Nordby, H. P.**, anaerobic plates, III, 357.
- Marshall, W.**, control of dizziness from hypertension by histamine phosphate, III, 51.
- Marshall, W. H.,** and **Enders, R. K.**, blastocyst of *Martes*, III, 155.
- Talbot, S. A.,** and **Ades, H. W.**, cortical response of anaesthetised cat to gross photic and electrical afferent stimulation, III, 387.
- Marsland, D. A.** See **Brown, D. E.**
- Marson, H. W.** See **Anderson, G. W.**
- Martens, E. J.,** and **Meredith, H. V.**, illness history and physical growth, correlation in junior primary children followed from fall to spring, III, 156.
- Martensson, O.** See **Fredga, A.**
- Marti, T.**, pituitary graphs in Simmond's disease, III, 112.
- Martin, A. J. P.** See **Gordon, A. H.**
- Martin, A. R.** See **Rutherford, H. A.**
- Martin, B. B.** See **Stokes, J. L.**
- Martin, C. W.**, name for element 85, I, 141.
- Martin, D. J.** See **Bird, H. M.**
- Martin, D. R.** See **Booth, H. S.**
- Martin, D. S.**, use of photronreflectometer for determination of optimal ratio between pneumococcus type I SSS and anti-pneumococcus type I rabbit serum, III, 774.
- Erickson, J. O.,** **Putnam, F. W.**, and **Neurath, H.**, native and regenerated ox albumin. II. Immunological properties, III, 838.
 See also **Sprunt, D. H.**
- Martin, F. E.**, eradication of streptococcal mastitis by treatment with tyrothricin, III, 136. Treatment of streptococcal mastitis with tyrothricin, III, 674.
- Martin, F. N.**, chronological relationships between blood pressure and serum-potassium effects of epinephrine, III, 477.
 See also **Macias, F. T.**
- Martin, G. J.**, *p*-aminobenzoic acid and sulphonamides in rat nutrition, III, 338. "Folic acid" in nutritional achromotrichia, III, 501. Hypertensive effect of diets high in tyrosine, III, 720.
- Ansbacher, S.,** and **Wisansky, W. A.**, *p*-aminobenzoic acid and dopa reaction, III, 597.
 and **Fisher, C. V.**, urethane: absence of parallelism with anti-sulphanilamide action of *p*-aminobenzoic acid, III, 277.
- and **Hueper, W. C.**, biochemical lesions [hyperglycaemia] produced by diets high in tyrosine, III, 757.
- Rennebaum, E. H.,** and **Thompson, M. R.**, prophylactic and therapeutic detoxication; guanidine, indole, and histamine, III, 836.
 and **Thompson, M. R.**, intravenous alimentation with amino-acids, III, 573.
 See also **Hueper, W. C.**
- Martin, Hans**, and **Kuhn, W.**, multiplication process for separation of racemates, I, 275.
- Martin, Hayes E.,** and **Sugabaker, E. L.**, cancer of floor of mouth, III, 492.
 See also **Abels, J. C.**
- Martin, Helen E.,** and **Wick, Ann N.**, quantitative relationships between blood- and urine-ketone levels in diabetic ketosis, III, 828.
 See also **Greeley, P. O.**
- Martin, Hugh E.,** and **Hare, L.**, nutritive requirements of mealworm larvæ, III, 901.
- Martin, J. E.**, atropine glaucoma, III, 553.
- Martin, L.**, results of X-ray therapy in thyrotoxicosis, III, 22.
- Martin, L. C.**, standardised colour-vision testing lantern. II. Transport type, III, 733.
- Martin, N. H.** See **Findlay, G. M.**, and **Maegraith, B. G.**
- Martin, R.** See **Baker, F.**
- Martin, R. H.**, polymethylbenzoylnaphthoic acids, II, 233.
 See also **Badger, G. M.**
- Martin, S. J.,** **Burstein, C. L.**, and **Rovenstine, E. A.**, stimulation of celiac plexus in dog. I. Cardiovascular and respiratory effects. II. Cardiovascular and respiratory responses, III, 16.
- Clark, B. B.,** and **Herrlich, H. C.**, effect of tissues on detoxication of evipal in dog, III, 763.
- Martin, W. P.** See **Eaton, M. D.**
- Martinek, R. G.,** **Kirch, E. R.**, and **Webster, G. L.**, determination of nicotinic acid, II, 316.
- Martinez, C. A.**, excitability and conductivity of ischaemic myocardial fibres produced by coronary occlusion, III, 789.
- Martinez-Esteve, P.**, histology of opossum ovary, III, 452.
- Martini, A.** See **Bredereck, H.**
- Martins, J. L. R.** See **Beck, G.**
- Marton, L.**, applications of electron microscope in colloid chemistry, I, 126.
- Marty, L.** See **Croxatto, R.**
- Martzloff, K. H.,** **Moore, P. H.**, and **Gardner, J.**, aseptic end-to-end anastomosis of intestine, III, 328.
- Maruschkin, M. N.** See **Balaïdin, A. A.**
- Maruseva, A. M.**, influence of sympathetic nervous system on activity of proprioceptors in frog skeletal muscle, III, 875.

- Marvel, C. S., and Himmel, C. M., dissociation of hexa-arylethanes. XIV. Ethanes derived from mixtures of triaryl halides, II, 27.
- Himmel, C. M., Shackleton, J. W., and Whitson, J., dissociation of hexa-arylethanes. XII. Effect of naphthyl and diphenyl groups, II, 27.
- Jones, G. D., Mastin, T. W., and Schertz, G. L., structure of co-polymerides of vinyl chloride and vinyl acetate, II, 53.
- Marvin, H. N., and Meyer, R. K., effects of antigenadotrophic serum on early postnatal development of reproductive system of male rat, III, 563. Progonadotropic and aspecific effects of serum of horse immunised with extracts of sheep pituitary glands, III, 812.
- and Smith, G. C., thyroidectomy in pigeon; early effect of thyroid removal on heat production, III, 556.
- Marx, L., partial masculinisation of ovary in rats treated with testosterone, III, 742.
- Marx, W., Evans, H. M., Li, C. H., and Simpson, M. E., antagonism of pituitary adrenocorticotropic hormone to growth hormone in hypophysectomised rats, III, 886.
- Evans, H. M., Magy, D. B., and Simpson, M. E., pituitary hormones and urine-nitrogen, III, 646.
- Evans, H. M., and Simpson, M. E., bioassay of growth hormone of anterior pituitary, III, 170. Purification of growth-hormone of anterior pituitary gland, III, 391.
- and Reinhardt, W. O., lack of effect of growth hormone on deposition of radiostrontium in bone, III, 323.
- See also Evans, H. M., and Finkelstein, H.
- Marker, A. See Ruzicka, L.
- Maschmann, E., linking of "natural" and "unnatural" peptidases in animal and cancer cells, III, 350.
- Masen, J. M., determination of atebrin in blood and urine, III, 780.
- Masland, R. L. See Harvey, A. M.
- Maslennikov, V. M. See Rebinder, P.
- Mason, B. See Bystrom, A.
- Mason, H. H. See McCune, D. J.
- Mason, H. L., and Williams, R. D., determination of thiamin in urine by thiochrome method; blank determination, III, 330.
- See also Higgins, G. M., and Williams, R. D.
- Mason, H. S., and Schwartz, L., toxic principles of poison ivy, III, 447.
- See also Michael, A.
- Mason, J. P. See Malkiel, S., and Zief, M.
- Mason, K. E., criteria of response in bio-assay of vitamin-E, III, 44. Distribution of vitamin-E in rat tissues, III, 44.
- Mason, T. G. See Phyllis, E.
- Mason, W. R., and Lehman, E. P., undescended perineal testis, III, 122.
- Massari, S. C. See Steinberg, H. H.
- Massart, L., Dufait, R., and Grembergen, G. van, inhibition of succinodehydrogenase by pyrophosphate, III, 681.
- Massell, T. B. See Beaser, S. B.
- Masserman, J. H., is hypothalamus centre of emotion ?, III, 164.
- Masssey, H. S. W., elastic scattering of fast positrons by heavy nuclei, I, 47.
- Masson, G., and Selye, H., response of metrial gland to treatment with steroids, II, 326. Changes in accessory sex organs of male rat after administration of oestradiol in combination with progesterone or deoxycorticosterone acetate, III, 478.
- See also Selye, H.
- Masson, J. C., and Gregg, R. O., carcinoma of body of uterus, III, 251.
- Masson, P., Riopelle, J. L., and Simard, L. C., non-malignant mesothelioma of genitalia, III, 572.
- Mast, S. O., pH during digestion in *Amaba*, III, 893.
- and Pace, D. M., effect of phosphorus on metabolism in *Paramecium*, III, 60.
- Master, A. M., and Dack, S., incidence of hypertension in people over 40 years of age, III, 550.
- Dack, S., and Jaffe, H. L., cardiac efficiency following acute coronary occlusion, III, 631.
- Masters, E. J., and Bogert, M. T., thiazoles. XXV. Thiazolidinopyrimidines of barbituric acid type. XXVI. Acyl derivatives of 2-aminothiazoles, II, 110, 111.
- Masterson, J. P. See Vernon, A. A.
- Mastin, T. W. See Marvel, C. S.
- Masucci, P. See Gold, Herman.
- Matchett, J. R., and Levine, J., molecular still designed for small charges [0.25–5 g. of oil], I, 240.
- Mather, A., distribution of oestrogens between immiscible solvents, III, 29.
- Mather, K., polygenic inheritance and natural selection, III, 79.
- Matheson, I., sulphapyridine in pneumococcal peritonitis, III, 759.
- Mathews, W. W., convenient method for handling chick embryos, III, 785.
- Mathewson, W. R., voluntary convergence, III, 235.
- Mathias, S. See Rheinboldt, H.
- Mathieson, D. R. See Holck, H. G. O.
- Mathieu, A. See Holman, A. W.
- Mathieu, J. P., optical polarisability and natural rotatory power, I, 51.
- Matson, G. M. See Bisgard, J. D.
- Matsukawa, T. See Fujii, K.
- Mattau, J., Ewald, H., Hahn, O., and Strassmann, F., has a caesium isotope of long half-life existed? Interpretation of unusual lines in mass-spectrography, I, 269. See also Hahn, O.
- Matthews, C. A., Swett, W. W., and Graves, R. R., milk yields and milking rates of individual quarters of dairy-cow udder, III, 811.
- Matthews, C. S., Schwabe, E. L., and Emery, F. E., oestrus-producing activity of stilboestrol in subthreshold to maximal doses, III, 30. Recovery of reproduction system of male rat from regressive changes induced by stilboestrol, III, 241.
- See also Emery, F. E.
- Matthews, D. N., local chemotherapy in wounds and burns, III, 339.
- Matthews, L. H., genitalia and reproduction of African bats, III, 170. Reproduction in *Felis silvestris grampia*, III, 170.
- Matthews, M. E., influenzal meningitis in child treated with sulphapyridine, III, 582.
- Matthews, S. A., effects of light and temperature on male sexual cycle in *Fundulus*, III, 125. See also Smith, D. C.
- Matthiessen, G., and Thoene, H., isolation of volatile carbonyl compounds from normal urine, III, 816.
- Matti, L., mathematics of vitamin tests, III, 187.
- Matick, M. R. See Abramowitz, E. W., and Winer, J. H.
- Mattick, A. T. R., and Shattock, P. M. F., group *N* streptococci, III, 437.
- Shattock, P. M. F., and Jacob, M. M., relationship of methods of bacteriological examination to eradication and control of mastitis (*Streptococcus agalactiae*). I. Use of enrichment technique in revealing streptococcal infections of cow's udder. II. *Str. agalactiae* infection in heifers, III, 66.
- Mattick, W. L., radiotherapy of epithelioma of tonsil, III, 185.
- Mattill, H. A., vitamin-E, cod-liver oil, and muscular dystrophy, III, 465.
- See also Devlin, H. B., Hines, L. R., and Houchin, O. B.
- Mattingly, D. See Menville, L. J.
- Mattis, P. A. See Welch, A. D.
- Matton, W. E., and Leighty, J. A., blood plasma pipette, III, 81.
- Mattoso, I. V., and Chaves, I. M., microbiological processes in determination of aneurin, III, 42.
- See also Chaves, I. M.
- Mattson, F. H., and Deuel, H. J., jun., carotenoid metabolism. III. Effect of a high-vitamin diet on carotenoid metabolism of chickens III, 414.
- See also Deuel, H. J., jun.
- Matz, M. H., lead poisoning caused by plaster of lead oleate (diachylon), III, 422.
- Maung, K., pigmentation of hair and eye colours in Scottish school children, III, 79.
- Maunsell, K., cross-desensitisation in allergic diseases, III, 778.
- Maurer, G., long-wave selective photo-effect in super-semi-conductors, I, 2. Secondary electron emission of semi-conductors or insulators, I, 2.
- Maurer, W., and Ramm, W., 19-minute isotope of molybdenum and isotope of element 43 produced from it, I, 79. Artificial radioactive isotopes of lead and neighbouring elements, produced from uranium and thorium lead, I, 214.
- Maurer-Stroh, H. See Rollett, A.
- Maurizi, A. See Poggi, A. R.
- Maurmeyer, R. See Leikind, S. S.
- Mauser, C. L., Rowe, A. H., and Michael, P. P. E., intercapillary glomerulosclerosis, III, 248.
- Mauss, E. A. See Frobisher, M.
- Mautner, H., and Yetwin, I. J., effects of pentamethylenetetrazole (metrazole) on stomach, III, 512.
- Mautz, F. R. See Harkness, D. M.
- Maver, M. E., and Thompson, J. W., hydrolysis of glutathione by cathepsins of normal rat tissues and rat hepatoma 31, III, 490.
- Mawson, C. A., determination of sulphonamide drugs by method of Werner, III, 48. See also Mapson, L. W.
- Mawson, J., and Swan, C., intranasal vaccination of humans with living attenuated influenza virus strains III, 924.
- See also Swan, C.
- Maxey, K. F., hypothetical relationship of water supplies to poliomyelitis, III, 359.
- Maximovitsch, G. A., hydrochemical facies of fluvial waters and their zoning, I, 321. Porosity of geospheres, I, 322.
- Maxon, T. See Ranmelkamp, C. H.
- Maxwell, A. F., placenta previa and abruptio placenta, III, 326.
- Maxwell, I. See Wood, B.
- Maxwell, N. See Nelson, O. E.
- May, C. D., McCreary, J. F., and Blackfan, K. D., cause and treatment of coeliac disease, III, 193.
- May, (Miss) E. L. See Price, Donald.
- May, R. M., uterine eosinophils and phases of oestrous cycle in rat and mouse, III, 174.
- Maycock, W. d'A., effect of vitamin-B₁ on survival time after haemorrhage and application of cold, III, 664.
- See also Brown, G. L.
- Mayer, E., reversibility in orientation of chick embryo and question of situs inversus viscerum, III, 222.
- Mayer, G. See Schopf, C.
- Mayer, G. G. See Ellenberg, M.
- Mayer, H. See Lang, K.
- Mayer, J. E., statistical mechanics, I, 7. See also McCallum, K. J.
- Mayer, K., determination of liquefaction of starch, II, 221. Mucoid-like substance from [normal and cancer] serum, III, 89. See also Waldschmidt-Leitz, E.
- Mayer, Manfred. See Heidelberger, M.
- Mayer, Margarete. See Spath, E.
- Mayer, M. D. See Mann, H.
- Mayer, M. G., and McCallum, K. J., calculation of absorption spectra of Wurster's salts, I, 142.
- Mayer-Gross, W., hypoglycaemia: oral and facial movements, III, 234. and Berliner, F., blood-sugar and consciousness, III, 725. Cerebrospinal fluid-sugar and coma, III, 726.
- See also Guttmann, E.

- Mayer-Pitsch, E., and Troger, H., ultra-violet absorption of resins of the formaldehyde-phenol type, I, 295.
- Mayerhofer, E., treatment of disturbances of infantile metabolism with autonomic drugs, III, 261.
- Mayers, M. R. See Greenburg, L.
- Mayeur, M. H., pregnancy following intra-uterine application of radium, III, 118.
- Mayfield, F. D. See Stull, D. R.
- Maynard, J. T. See Pressman, D.
- Maynard, L. A., foods of plant origin, III, 573.
- and Rasmussen, E., influence of dietary fat on lactation performances in rats, III, 186. See also Loosli, J. K.
- Mayo, C. W., and Miller, J. M., endometriosis of sigmoid, rectosigmoid, and rectum, III, 185. See also Wilson, W. D.
- Mayor, G., hepatogenous osteodystrophy, III, 815.
- Mayr-Harting, A. See Burton, H.
- Maze, R., and Chaminade, R., direct measurement of mean life of the meson at rest, I, 247. See also Auger, P. V.
- Mazel, F. A., and Astanovitzkaja, S. N., reactions between sodium carbonate and ferric oxide and alumina, I, 23.
- Mazer, M., and Reisinger, J. A., criteria for differentiating deep Q, electrocardiograms from normal and cardiac subjects, III, 867.
- Mazick, S. G. See Finesinger, J. E.
- Mead, D. J., and Fuoss, R. M., electrical properties of solids. XIII. Polymethyl acrylate, methacrylate, and α -chloroacrylate, and polyvinylchloroethyl methacrylate, I, 51. See also Fuoss, R. M.
- Mead, H. W., environmental relationships in a seed-borne disease of barley caused by *Helminthosporium sativum*, Pammel, King, and Bakke, III, 218.
- Mead, J., anthropological approach to dietary problems, III, 784.
- Meade, W. H., and Ochsner, A., relative value of catgut, silk, linen, and cotton as suture materials, III, 399.
- Meadoe, J. R., and Reid, E. E., ψ -saccharin chloride, a reagent for identification of alcohols, II, 211.
- Meakins, J. C., and McKenna, R. D., analysis of pneumonia deaths since introduction of sulphonamide therapy, III, 417.
- Meals, R. N. See Gilman, H.
- Means, J. A., Grenfell, T. C., and Hedger, F. H., polymorphism of riboflavin, I, 178.
- Means, J. H., medical aspects of treatment of toxic goitre, III, 237.
- Meazer, R., Novak, C. R., and Reed, C. I., comparative toxicity of three forms of vitamin-D for rats, III, 336.
- Mecchi, E. See Almqvist, H. J.
- Mech, K. See Uhlenhuth, E.
- Mecke, F. E. See Taylor, H. C., jun.
- Medawar, P. B., Robinson, G. M., and Robinson, (Sir) R., synthetic differential growth inhibitor, III, 256. See also Gutmann, E., Holmes, W., and Seddon, H. J.
- Medawar, T. B. See Gibson, T.
- Medcof, J. C. See Gibbard, J.
- Medes, G., and Floyd, N., metabolism of sulphur; cysteic acid, III, 46.
- Medical Research Council, sterilisation of sulphamidine powder, III, 339, 509. Haemoglobinometry and the haematocrit, III, 371. Medical use of sulphonamides, III, 829. Gas gangrene: prevention, diagnosis, treatment, III, 832. Determination of blood groups, III, 864.
- Medovy, H., western equine encephalomyelitis in infants, III, 924.
- Medvedev, M. F. See Kisliakova, E. N.
- Medvedev, S. See Gantmacher, A.
- Medvedeva, N. B., autocatalytic regulation of physiological functions of connective tissue, I—III, III, 80.
- Meek, S. F., Prendergast, J. J., Harrold, G. C., and McCord, C. P., physiological action of metallic magnesium, III, 345. See also McCord, C. P.
- Meek, W. J. See Allen, C. R.
- Megaw, J. W. D., typhus fever, III, 530.
- Meggers, W. F., atomic spectra of rare earth elements, I, 173. Primary standard of wave-length, I, 186.
- Megibow, R. S., Katz, L. N., and Feinstein, M., kinetics of respiration in experimental pulmonary embolism, III, 550.
- Katz, L. N., and Rodbard, S., arterial hypertension in experimental hydronephrosis, III, 11.
- Mehl, J. W., and Sexton, E. L., effect of salt and substrate concentration on activity of adenosine triphosphatase, III, 770.
- Mehlig, J. P., stability of cupric-ammonia colour system, I, 100.
- Mehta, S. D. See Prasad, M.
- Mehta, S. U., and Nargund, K. S., alkylsuccinic acids. II. n -Amyl- and n -decyl-succinic acids, II, 120.
- Meidinger, W. See Korte, H.
- Meier, M. S., electrocardiographic investigations after physical exercise with gas masks, III, 630.
- Meier, R. See Druey, J.
- Meigs, J. V., cancer of ovary, III, 333. See also Jaffe, H. L.
- Meiklejohn, G. See Eaton, M. D.
- Meiklejohn, J., vitamin-B₁ content of potatoes, III, 753.
- Meisel, K. See Faller, F. E.
- Meissner, H. P., and Schumacher, H. J., decomposition of diethyl ether induced by chlorine, I, 65. Reactions of alkyl halides with hydrogen halides, I, 65.
- Meissner, K. W., application of atomic beams in spectroscopy, I, 209.
- Meissner, W., helium liquefaction without pre-cooling with liquid hydrogen, I, 42.
- Meites, J., Trentin, J. J., and Turner, C. W., effect of adrenalectomy on lactogenic hormone and initiation of lactation, III, 390. and Turner, C. W., initiation of lactation at parturition. IV. Influence of suckling on lactogen content of pituitary of post-partum rabbits, III, 25. Cause of initiation of lactation at parturition, III, 482. See also Trentin, J. J.
- Meitner, L., investigating secondary electrons excited by γ -rays and interference of these electrons with measurements of primary β -ray spectra, I, 173.
- Melamed, A., and Hiller, R. I., prolapsed gastric mucosa, roentgenologic demonstration of ulcer crater in prolapsed polypoid mucosa, III, 892.
- Melcher, L. R., and Campbell, D. H., serologically active polysaccharide from *Trichinella spiralis*, III, 442.
- Melchers, G., and Lang, A., blossom production in long-day plant *Hyoscyamus niger* under short-day conditions by infiltration of leaves with sugar solutions, III, 361.
- Meldau, R., and Teichmüller, M., morphology of finely-powdered lead oxide sublimate, I, 221. Morphology of finest sublimed lead oxide [minium]. I, I, 300.
- Meleney, F. L., zinc peroxide in treatment of diabetic gangrene of lower extremities, III, 345. See also Sandusky, W. R.
- Melikova, O. S. See Starik, I. E.
- Melkonian, G. A. See Ohle, H.
- Mellanby, E., effect of bone dysplasia (over-growth) on cranial nerves in vitamin-A-deficient animals, III, 636.
- Mellanby, K., daily rhythm of cockroach activity, III, 249.
- Johnson, C. G., and Bartley, W. C., treatment of scabies, III, 419. See also Krebs, H. A.
- Mello, M., modification of Bowman pregnancy test, III, 741. Diagnosis of pregnancy, III, 741.
- Mellon, M. G., analytical experiments in spectrophotometry, I, 185. See also Moss, M. L.
- Mellon, R. R., polyphasic potencies of bacterial cell; biological and chemotherapeutic significance, III, 66. See also McKinney, R. A.
- Mellor, D. P., stereochemistry of square complexes, I, 52. Stereochemistry of metallic complexes, with reference to their magnetic properties and the Cotton effect, I, 52.
- Mellors, R. C. See Abbott, W. E., and Harkness, D. M.
- Melnick, D., thiamin requirement of man, III, 408.
- and Field, H., jun., thiamin clearance as an index of nutritional status, III, 408. and Oser, B. L., chemical differentiation between nicotinamide and nicotinic acid in pharmaceutical products, III, 666. See also Hochberg, M., and Siegel, L.
- Melnick, J. L., photochemical spectrum of cytochrome oxidase, III, 272. Ultracentrifuge as aid in detection of poliomyelitis virus, III, 776.
- Meloy, C. R. See Huston, R. C.
- Melroy, M. B. See Spencer, R. R.
- Melton, G., treatment of asthma by nicotinic acid, III, 551. Oxygen therapy in shock, III, 722.
- Meltzer, P. E., hearing in chronic otitis media, III, 168.
- Melville, D. B., Moyer, A. W., Hofmann, K., and Du Vigneaud, V., structure of biotin: formation of thiophenvaleric acid from biotin, II, 111. See also Du Vigneaud, V., and Hofmann, K.
- Melville, K. I. See Stehle, R. L.
- Melville, R., and Pyke, M., [vitamin-C and chromosome number in Rosa], III, 74.
- Melville, R. S. See Talbott, J. H.
- Melvin, P. See Hurst, E. W.
- Member, S. See Bruger, M.
- Membrives, J. R. See under Reforzó Membrives, J.
- Mencher, E. See López, V. M.
- Mencher, W. H. See Engel, F. L., and Neuhoef, H.
- Menchikoff, N., sounding in the Tanezrouft, I, 104.
- Mendel, B., and Mundell, D. B., choline-esterase. II. Purification of pseudo-choline-esterase from dog pancreas, III, 426.
- Mundell, D. B., and Rudney, H., choline-esterase. III. Specific tests for true choline-esterase and pseudo-choline-esterase, III, 915. and Rudney, H., choline-esterase. I. Choline-esterase and pseudo-choline-esterase, III, 426.
- Mendell, T. H., Meranze, D. R., and Meranze, T., clinical value of sternal bone marrow puncture, III, 81.
- Mendelsohn, K. See Brown, G. M., and Daunt, J. G.
- Mendelsohn, T., variation with temperature of crystal photo-electric effect, I, 178.
- Mendez, R., and Montes, G., Veratrum alkaloids, III. Differences in action of cevine and veratridine, III, 832.
- Mendlowitz, M., digital circulation in peripheral vascular diseases, III, 92. Digital blood flow, arterial pressure, and vascular resistance in arterial hypertension and in coronary thrombosis, III, 93.
- Meneely, G. R. See Davis, H. A.
- Meneely, E. E., jun., and Poston, M. A., effects of sulphanilamide on *Brucella melitensis*, var. *melitensis*, *abortus*, and *suis*, III, 210.
- Menghelli, J., and Drinberg, M., intravenous hippuric acid test of hepatic function in infectious diseases of children, III, 893.
- Mengert, W. F. See Witschi, E.
- Menius, A. C., jun., and Rosen, N., classical field theory, I, 77.
- Menke, J. F., extraction of a carcinogenic factor from human cancerous tissues, III, 488.

- Menkin, V., effect of adrenal cortex extract and of various steroids on capillary permeability, III, 322.
- and Kadish, M. A., chemical fractionation from exudates of factor promoting leucocytosis, III, 459.
- Menne, F., origin of muscle-creatine. III., III, 13.
- Menon, K. N. See Kartha, A. R. S.
- Menotti, A. R., water-soluble derivatives of menadione [2-methyl-1:4-naphthaquinone], II, 303.
- Menten, M. L. See Scully, J. P.
- Mentha, C., pancreatogenous osteodystrophy [in man and dog], III, 77.
- Menville, L. J., Williamson, L., and Mattingly, D., [radiology in] renal rickets, III, 516.
- Menzel, H., and Schulz, H., boric acid and its alkali salts. X. Kernite (rasorite), $\text{Na}_2\text{B}_4\text{O}_7 \cdot 4\text{H}_2\text{O}$, I, 134.
- See also Olson, K. B.
- Menzel, W. [with Froehlich, M.], action of aluminium halides on aliphatic ethers. I. Aluminium oxyhalides, I, 134.
- Meranze, D. R., Likoff, W. B., and Schneeberg, N. G., blood-galactose tolerance test [in hyperthyroidism], III, 108.
- See also Mendell, T. H., and Schneeberg, N. G.
- Meranze, T. See Mendell, T. H.
- Mercer, E. H., structure and behaviour of cortical cells of wool fibres, III, 249.
- Merchant, I. A. See Rosenbusch, C. T.
- Mercier, A., liquefaction of the earth, I, 27.
- Mercier, J., causes of *Bact. coli* antagonism [to other bacteria], III, 355.
- Mercier, J. M. See Baranger, P. M.
- Meredith, H. V. See Martens, E. J.
- Meredith, J. M., value and indications for encephaloventriculography, III, 383.
- Merino, C., Doan, C. A., Saslaw, S., Schwab, J. L., and Woolpert, O. C., reactions of monkeys to mixtures of influenza virus and streptococcus, III, 696.
- See also Doan, C. A., Schwab, J. L., and Woolpert, O. C.
- Merkel, W. C., and Crawford, R. C., pathological lesions produced by sulphathiazole, III, 341.
- Merman, H. A., and Ragsdale, A. C., feeding of Korean lespedezia seed as protein supplement for milk production, III, 495.
- Merrill, M. See Young, L. E.
- Merrim, C. W., and Anderson, C. A., Roberts Mountains, Nevada, I, 291.
- Merrill, (Miss) A. T., Hann, R. M., and Hudson, C. S., crystalline β -D-glucosid-L-talocetose (syn. D-glucosid-L-talo-octose), II, 255.
- Merrill, P. W., spectrum of $BD + 11^\circ$ 4673 during the years 1937—41, I, 77.
- Burwell, (Miss) C. G., and Miller, W. C., discovery and observation of stars of class Be. III., I, 109.
- Merriman, J. R. See Osborne, S. L.
- Merritt, H. H. See Brenner, C.
- Merten, R., and Schmitz, A., separation of d-amino-acid oxidase and d-dipeptidases, III, 350.
- Schmitz, A., and Herken, H., steric specificity of dipeptidase and aminopeptidase, III, 141. Activation of d-peptidase in tissue extracts, III, 142.
- See also Schmitz, A.
- Mertes, R. W. See Crowell, W. R.
- Merves, L. See Nye, R. B.
- Merwarth, H. R., occurrence of peripheral facial paralysis in hypertensive vascular disease, III, 234.
- Merwin, R. M., and Allee, W. C., effect of low concentration of carbon dioxide on cleavage rate of frogs' eggs, III, 477.
- See also Allee, W. C.
- Meschan, I. See Quigley, J. P.
- Meserve, E. R. See McKhann, C. F.
- Messinge, P., conductivity of gases excited by high-frequency discharges, I, 78.
- Messe, G. J. See Ricci, J. E.
- Messer, W. See Peshkin, M. M.
- Messerli, F. M. See Eggenberger, H.
- Messinger, R. F., and Shryock, E. H., conjoined foetuses (thoracopagus dysymmetros) occurring in set of monozygotic triplets, III, 782.
- Messinger, W. J., nitrogen equilibrium and regeneration of serum-protein following intravenous use of amino-acids, III, 904.
- Metcalf, J. S. See Spicer, W. M.
- Metheny, E., Brouha, C., Johnson, R. E., and Forbes, W. H., physiologic responses of women and men to moderate and strenuous exercise, III, 679.
- Mettler, F. A., reticulocytosis following ablation of frontal cerebral cortex, III, 638.
- Metz, C. B., inactivation of fertilizin by radiations, III, 619.
- Metzger, H. J., Waksman, S. A., and Pugh, L. H., *in-vivo* activity of streptothricin against *Brucella abortus*, III, 342.
- Metzger, I. See Stoddard, F. J.
- Metzger, N. See Baumann, E. J.
- Meulengracht, E., medical treatment of gastrointestinal ulcers and complications, III, 813.
- Meunier, A. C. See Simons, J. H.
- Meyenburg, H. von, pathological anatomy and pathogenesis of eosinophilic pulmonary infiltration, III, 625.
- Meyer, A. See Lawrence, R. D.
- Meyer, Aurel. See Wieland, H.
- Meyer, A. A., Oosthuizen, S. F., and Shapiro, H. A., radiological signs of decalcification, III, 541.
- Meyer, A. E., and Ferguson, E. A., influence of blood extracts from normal, goitrous, and diabetic persons on heart rate of thyroidectomised rat, III, 169.
- Meyer, B. S., Bell, F. H., Thompson, L. C., and Clay, E. I., effect of depth of immersion on apparent photosynthesis in submerged vascular aquatics, III, 854.
- Meyer, E. W. See King, L. C., and Riegel, B.
- Meyer, F. See Braun, J. von.
- Meyer, F. R. See Fricke, R.
- Meyer, H., cultures of nervous tissues infected by *Schizotripanum cruzi*, III, 300.
- Meyer, Hildegard. See Zeile, K.
- Meyer, J., Sorter, H. K., and Necheles, H., treatment of bleeding peptic ulcer, III, 564.
- Meyer, J. F., and Wagner, E. C., Niementowski reaction; use of methyl anthranilate or isatoic anhydride with substituted amides or amidines in formation of 3-substituted 4-keto-3:4-dihydroquinazolines, II, 341.
- Meyer, J. R., colchicine-Feulgen leaf smears, III, 544.
- Meyer, Karl, photosensitised oxidation of ethylenic double bonds, I, 22.
- Meyer, Karl (New York). See Ayo, C.
- Meyer, K. A., Rosi, P. A., and Ragins, A. B., carcinoma of parathyroid gland, III, 238.
- See also Thompson, W. O.
- Meyer, K. F. See Elberg, S. S.
- Meyer, K. H., and De Traz, C., determination and concentration of phosphorylase of potato, III, 599.
- and Heinrich, P., starch. XXIV. Composition of starches, II, 156.
- and Wyk, A. J. A. van der, fine structure of cellulose fibre, I, 300.
- Meyer, L. M., and Perlmutter, M., aplastic anaemia due to sulphathiazole, III, 265. Absorption rate [circulation time] from bone marrow, III, 460.
- Meyer, M., mercuri-iodides, I, 282.
- Meyer, M. A. See Harris, F. I.
- Meyer, O. O. See Bingham, J. B.
- Meyer, R. K., McShan, W. H., and Casida, L. E., effectiveness of blood and haemin for augmentation of pituitary gonadotropic extracts in the male, III, 890.
- See also Hasler, A. D., Marvin, H. N., Payne, M. A., and Schwerma, H.
- Meyer-Delius, M. See Weidlich, H. A.
- Meyerhof, O., intermediate reactions of fermentation, III, 352. Chemical and physiological tools for investigating the intermediary metabolism of carbohydrates,
- Meyerhof, O., and Junowicz-Kocholaty, P., two-fold activation of carbohydrate breakdown by arsenate and dephosphorylation of phosphopyruvic acid, III, 143. Equilibria of isomerase and aldolase, and the phosphorylation of glyceraldehyde phosphate III, 770.
- Meyers, C. H., equation for isotherms of pure substances at their critical temperatures, I 224.
- Meyrick, L. D., and Harrison, C. V., counter-stain for use in Gram technique, III, 61.
- Meystre, C. See Miescher, K.
- Mezen, J. F. See Hubbard, R. S.
- Mezer, J. See Rutherford, R. N.
- Miah, A. H. See Raychaudhuri, S. P.
- Michael, A., and Mason, H. S., normal addition of hydrogen bromide to Δ^2 -butenoic, Δ^2 -pentenoic, and Δ^2 -hexenoic acid in hexane, II, 216.
- and Saffer, C. M., jun., addition of sodium triphenylmethyl and lithium phenyl to cinnamic ester and benzylideneacetophenone, II, 192.
- Michael, M., chemotherapy in *Staphylococcus aureus* pneumonia, III, 134.
- Michael, P. P. E. See Mauser, C. L.
- Michael, V. See Richmond, J. J.
- Michaelis, L., Coryell, C. D., and Granick, S., ferritin. III. Magnetic properties of ferritin and other colloidal ferric compounds, I, 223.
- and Granick, S., extension of acidity scale, I, 15. Magnetic susceptibility of brown ferric phenanthroline complex, I, 196.
- See also Granick, S.
- Michaelis, R. See Coulthard, C. E.
- Michaelsen, G. S. See Kabler, P.
- Michailov, N. N., rôle of phosphates in early phases of growth and development of kok-saghyz, III, 292.
- Michailova, M. N., and Neiman, M. B., polarographic determination of concentrations of aldehydes and peroxides, II, 316.
- Michalev, P. F., action of colloids (dextrin) on the electro-deposition of zinc and cadmium, I, 155.
- Michalover, S. See Byron, C. S.
- Micheel, F., and Emde, H., antigens and malignant tumours, III, 128. Antigens and malignant tumours. IV, III, 402.
- Emde, H., and Dorner, H., antigens and malignant tumours. V., III, 402.
- Michel, H. O. See Friedenwald, J. S.
- Michel, R. See Dumazerl, C.
- Michelson, I. D. See Deere, C. J.
- Michelson, N., physical development of negroes. I. Stature, III, 860.
- Michener, H. D., shortening of dormancy in potato tubers, III, 533.
- Michlin, D., vitamin-K₃, an antihæmorrhagic, III, 826.
- and Borodina, O. J., influence of ascorbic acid and other readily oxidised substances on pancreatic lipase, III, 272.
- Mickelsen, O., and Keys, A., composition of sweat, with reference to vitamins, III, 817.
- Mickelson, M. N., and Werkman, C. H., effect of aldehydes and fatty acids as added hydrogen acceptors on fermentation of glucose by *Aerobacter indologenes*, III, 279.
- Mickle, F. L. See Borman, E. K.
- Micks, R. H., diet in diabetes, III, 573.
- Middleton, W. S., abdominal pain in pulmonary thrombosis, III, 631.
- Mider, G. B. See White, J.
- Miescher, G., vitamin-B₁-containing culture media and gonococci, III, 524. Experimental cancer production by photo-sensitisation, III, 818.
- and Schwarz, F., carcinogenic action of oil fuel, III, 818.
- Miescher, K., and Gasche, P., perlingual administration of male sex hormone, III, 121. Lingual administration of female sex hormone, III, 172.
- and Meystre, C., steroids. XXXIV. Saccharides of deoxycorticosterone, II, 166.

- Miescher, K. See also Wettstein, A.
- Mietzsch, F., chemotherapeutic action of sulphon(amid)es, III, 132.
- Mikluchin, G. P., and Brodski, A. E., study of mechanism of chemical reactions with oxygen isotopes. II. Beckmann rearrangement, I, 64.
See also Brodski, A. E.
- Milam, D. F., and Wilkins, W., plasma-vitamin-C levels in children before and after dietetic treatment, III, 190.
- Milder, B. See Urban, F.
- Miles, A. A., and Miles, E. M., fixation of foreign material in inflamed tissue, with reference to action of *Cl. welchii* toxin and antitoxin, III, 920.
See also Hayward, N. J.
- Miles, E. M. See Miles, A. A., and Williams, R.
- Miles, K. R., grunerite in Western Australia, I, 243. Magnetite-hæmatite relations in the banded iron formation of W. Australia, I, 323.
- Militzer, W. E. See West, R. A.
- Millar, W. G., and Ross, T. F., aortic size, status lymphaticus, and accidental death, III, 8.
- Millen, R. S. See Twombly, G. H.
- Miller, A. E. See Lynn, J. G.
- Miller, A. K., and Whittington, R. B., plasma viscosity in tuberculosis, III, 456.
- Miller, A. R., vapour pressure equations of solutions and osmotic pressure of rubber, I, 126, 199.
- Miller, A. T. See Sumwalt, M.
- Miller, A. T., jun., tissue-water. II. Macro-modification of distillation method of determination, III, 855.
- Miller, B. F., Abrams, R., Dorfman, A., and Klein, M., antibacterial properties of protamine and histone, III, 430.
- Miller, (Miss) C. C., qualitative semimicro-analysis with reference to Noyes and Bray's system; aluminium group, I, 137.
- Miller, C. D., thiamin assays of foods using the rat-growth method, III, 499.
- Louis, L., and Peterson, C., peanut butter as source of thiamin, calcium, phosphorus, and iron, III, 409.
- Miller, C. E., ketone alcohols. I. Derivatives of β -methylpentan- β -ol- δ -one, II, 152.
See also Odney, K. C.
- Miller, C. W., Geiger-Mueller counter pulse size, I, 186.
- Miller, E., Crossley, F. S., and Moore, M. L., synthesis of *p*-hydroxyphenyl amyl sulphide, II, 60.
- Miller, E. B., Singer, K., and Dameshek, W., faecal output of urobilinogen in haemolysis, III, 302.
See also Dameshek, W.
- Miller, E. F., nutrients and growth factors for lactic acid bacteria, III, 607.
- Miller, E. M., and Bothe, R. T., oesophageal stenosis, III, 244.
- Miller, E. R., [fluoroscopic] foreign body localisation device, III, 517.
and Herrmann, W. W., Roentgen sign of malignant change in argentaffin tumours of small bowel, III, 124.
- Miller, E. S. See Norris, F. A.
- Miller, E. V., and Winston, J. R., seasonal changes in carotenoid pigments in juice of Florida orange, III, 540.
- Miller, E. W., Orr, J. W., and Pybus, F. C., effect of oestrone on mouse skeleton, with reference to Newcastle bone tumour (N.B.T.) strain, III, 568.
- Miller, F. R. See Turner, D. L.
- Miller, G. L., derivatives of tobacco mosaic virus. III. Role of denaturation of virus in measurement of phenolic groups. IV. Determination of phenol groups in virus derivatives by means of model experiments with derivatives of tyrosine, III, 289.
and Stanley, W. M., derivatives of tobacco mosaic virus. II. Carbobenzoyl-, *p*-chlorobenzoyl, and benzenesulphonyl virus, III, 289.
- Miller, H. See Hawes, R. C., and Small, W. S.
- Miller, H. C., effect of methods of delivery on foetal and neonatal mortality, III, 563.
- Miller, Herbert C., extra-renal regulation of muscle- and serum-potassium following extracellular fluid and sodium depletion, III, 337. Effect of sex hormones on serum- and muscle-electrolyte of rats, III, 887.
See also Darlow, D. C.
- Miller, H. G., and Studdert, T. C., pernicious anaemia of pregnancy, III, 301.
- Miller, H. K. See Waesch, H.
- Miller, J. A., regeneration in *Tubularia*, III, 859.
- Miller, J. I., and Morrison, F. B., influence of feeding low-nitrogen rations on reliability of biological values, III, 252.
- Miller, J. J., jun., Leach, C. W., Saito, T. M., and Humber, J. B., comparison of nasopharyngeal swab and cough plate in diagnosis of whooping cough and *H. pertussis* carriers, III, 774.
and Saito, T. M., concurrent immunisation against tetanus, diphtheria, and pertussis, III, 215.
- Silverberg, R. J., Saito, T. M., and Humber, J. B., agglutinative reaction for *Hæmophilus pertussis*. I. Persistence of agglutinins after vaccine. II. Relation to clinical immunity, III, 921.
- Miller, J. L., sulphanilamide and its derivatives in ointment form, III, 418.
- and Kritzler, R. A., nodular non-suppurative panniculitis [post-mortem findings], III, 568.
- Miller, J. M., and MacCarty, W. C., pathological considerations in mammary sarcoma, III, 333.
and Wakefield, E. G., congenital anomalies of primary mid-gut loop, III, 298.
- See also Harrington, S. W., and Mayo, C. W.
- Miller, J. R., and Dent, R. F., hypothesis of production of *T* wave in electrocardiogram based on electrokinetic phenomena, III, 229.
- See also Barrick, L. E., and Wagner, A.
- Miller, J. W. See Dudley, H. C., and Fleming, R. B. L.
- Miller, L. C. See Levene, G.
- Miller, L. L., and Whipple, G. H., liver injury, liver protection, and sulphur metabolism, III, 485.
See also Madden, S. C., and Robscheit-Robbins, F. S.
- Miller, L. P., synthesis of $\beta\beta\beta$ -trichloroethyl-d-glucoside, and its isolation from maize and dandelion plants treated with chloral hydrate, II, 156.
- Miller, M. H. See Follis, R. H., jun., and Wintrobe, M. M.
- Miller, M. L., effect of storage on urinary androgens, III, 481.
- Miller, M. J., black spot disease of speckled trout, III, 38.
- Miller, M. M., ambulatory treatment of chronic alcoholism, III, 590.
- Miller, M. W. See Adams, R.
- Miller, P. A. See Mueller, J. H.
- Miller, R. A., gastric acidity during first year of life, III, 652.
- Miller, Richard A., influence of atropine on complete heart block, III, 229. Effects of anterior pituitary preparations and insulin on islet cells of pigeon pancreas, III, 323.
- and Riddle, O., cytology of adrenal cortex of normal pigeons and in experimentally induced atrophy and hypertrophy, III, 224. Effects of prolactin and cortical hormones on body weight and food intake of adrenalectomised pigeons, III, 808. Ability of adrenal cortical hormones, prolactin, and thyroxine to sustain weight of body and viscera of hypophysectomised pigeons, III, 884.
- Miller, S. See Garrett, A. B.
- Miller, S. J. See Brown, R. F.
- Miller, W. C. See Merrill, P. W.
- Miller, W. H., and Dawson, C. R., cresolase activity of tyrosinase; effect of gelatin and *p*-cresol concentration, III, 200.
- Milligan, W. O. See Weiser, H. B.
- Millikan, G. A., oximeter: instrument for measuring continuously oxygen saturation of arterial blood in man, III, 162.
- Millikan, R. A., Neher, H. V., and Pickering, W. H., atom-annihilation hypothesis as to origin of cosmic rays, I, 191.
- Millington, E. C., history of Young-Helmholtz theory of colour vision, III, 167.
- Millman, S. See Mandelbaum, T.
- Millott, N., visceral nervous system of earthworm. I. Nerves controlling tone of alimentary canal, III, 552.
- Mills, C. A., environmental temperature and vitamin-B requirements, III, 498. Urban air pollution and respiratory diseases, III, 594.
See also Wallace, E. W.
- Mills, C. H., and Schmidt, L. H., environmental temperatures and resistance to infection, III, 525.
- Mills, D. R., differential staining of living and dead yeast cells, III, 274.
- Mills, E. J., jun. See Leathem, J. H.
- Mills, E. S. See Townsend, S. R.
- Mills, G. T. See Channon, H. J.
- Mills, H. See Robinson, C. S.
- Mills, K. C. See Andrewes, C. H.
- Mills, M. A., and Mackie, T. T., chemotherapy of chronic ulcerative colitis, III, 744.
- Mills, R. See Breiter, H.
- Mills, R. C. See Briggs, G. M., jun., Hegsted, D. M., and Waisman, H. A.
- Mills, W. H., stereochemistry of labile compounds, I, 176.
- Milne, E. A., rational electrodynamics. IV. The "radius" of a point charge. V. The neutron and nuclear dynamics, I, 141.
- Milne, H. B. See Suter, C. M.
- Milone, H. S., and Everitt, E. L., tryptophan content of proteins, II, 179.
- Minatoya, H. See Gellhorn, E.
- Minchilli (*Signa*) M. See Musajo, L.
- Minckler, D., plastic mount for serial sections, III, 80.
- Mindalev, L. A., testing of measuring flasks, I, 319.
- Minder, W. See Leigh-Smith, A.
- Miner, A. C. See Steinberg, H. H.
- Minett, J. S., relapsing fever in Abyssinia, III, 433.
- Mingoia, Q., Bernardo Oddo (1882—1941), I, 73.
- Ministry of Health, homologous serum jaundice, III, 745.
- Minkowski, R., crab nebula, I, 110. Curvature of lines in plane-grating spectra, I, 165.
- Minlon, H., Chu, L. J. Y., and Lo, C. P., substituted azobenzene-4:4'-disulphonamides, II, 260. Identification of sulphanilamide and related drugs, II, 288.
and Lo, C. P., partial hydrolysis of *N,N*⁴-diacetyl sulphanilamide; preparation of *N*¹-acetyl sulphanilamide, II, 259.
See also Inhoffen, H. H.
- Minnich, V. See Moore, C. V.
- Minor, A. H., and Ramirez, M. A., utilisation of vitamin-C by cancer patients, III, 128.
- Minor, F. W. See Ludwig, C. A., and Rutherford, H. A.
- Minsky, H., concept of a zonular chamber, III, 104.
- Minter, C. C., hot-filament resistances, I, 166.
- Minton, S., jun. See Weed, L. A.
- Mintz, I. L. See Schindler, R.
- Minz, R. See Kornilov, I.
- Mirabile, C. See White, B. V.
- Miranda, L. I. See Feigl, F.
- Mirick, G. S. See MacLeod, C. M., and Thomas, L.
- Mirimanoff, A., vitamin-C in vegetables, III, 43.
- Mirnik, M. See Karschulin, M.
- Miropolski, L. M., segregation of secondary quartz in lower Permian deposits of Tataria, I, 74. Macrofibrrous anhydrite in Chuvash Republic, I, 74. Development of Tartarian lower Permian red rocks of "red

- Miropolski, L. M.—continued.
bed" type and the causes of their colour, I, 75. Distribution of nickel and copper in caustobiolites of Tataria, I, 76. Micro-crystalline dolomites, their origin and pseudomorphoses of anhydrite and gypsum after dolomite rhombohedra in lower Permian deposits of Tataria, I, 106. Admixture of barium and calcium in celestite, I, 140.
- and Borovik, S. A., spectral analysis of celestite from Upper Permian deposits of Tataria, I, 75.
- Miroshnitschenko, K. G., carbohydrate metabolism in wheats under conditions of insufficient soil moisture, III, 362.
- Mirsky, A. E., and Pollister, A. W., chemistry of chromatin, II, 401. Nucleoproteins of cell nuclei, III, 37.
- Mirsky, I. A., aetiology of diabetic acidosis, III, 47.
- Elgart, S., Grayman, I., and Nelson, N., pancreatic diabetes in monkey, III, 47. Production of permanent hyperglycemia and glycosuria by prolonged administration of insulin, III, 110.
- Elgart, S., Nelson, N., and Wasserman, P., fibrosis of pancreas in meat-fed ducks, III, 483.
- Grayman, I., and Nelson, N., influence of fat mobilisation on acetone body production [action of stilboestrol], III, 505.
- and Nelson, N., significance of glycosuria, III, 746.
- See also Abramson, D. I., Grayman, I., Nelson, N., and Wasserman, P.
- Mirvish, L., peptic ulcer: success or failure of medical treatment, III, 483.
- Mirza, B. E., and Advani, G. D., hydrolysis. II. Comparison of the saponification constants of the phenyl esters of fatty acids with those of their cyclohexyl esters, I, 204. o- and m-Tolyl butyrate; preparation and properties, II, 226.
- Misani, F. See Gates, M. D.
- Miser, H. D., quartz veins in the Ouachita mountains of Arkansas and Oklahoma: their relationships to structure, metamorphism and metalliferous deposits, I, 243.
- Mishra, J. P. See Asundi, R. K.
- Mishulow, L., Leifer, L., Sherwood, C., Schlesinger, S. L., and Berkey, S. R., pertussis antibodies in pregnant women; protective, agglutinating, and complement-fixing antibodies before and after vaccination, III, 146.
- Mitchell, E. B. See Gray, S. J.
- Mitchell, E. R. See Thorn, G. W.
- Mitchell, G. A. G., and Buttie, G. A. H., proflavine powder in wound therapy, III, 511.
- Mitchell, H. H., Hamilton, T. S., and Shields, J. B. [with Beadles, J. R.], contribution of non-fat milk solids to nutritive value of wheat breads, III, 660.
- See also Nakamura, F. I.
- Mitchell, H. K., Isbell, E. R., and Thompson, R. C., microbiological assay for p-aminobenzoic acid, III, 577.
- See also Snell, E. E., and Thompson, R. C.
- Mitchell, J., jun., and Bryant, W. M. D., optical crystallographic studies with the polarising microscope. V. Ellipsoidal dispersion in picrates of various amines I, 147.
- Mitchell, J. H. See Endicott, C. L.
- Mitchell, J. S., disturbance of nucleic acid metabolism produced by therapeutic doses of X- and γ-radiations. I. Investigation. II. Accumulation of pentose nucleotides in cytoplasm after irradiation. III. Inhibition of synthesis of thymonucleic acid by radiation, III, 259.
- Mitchell, J. W., Borasky, R., and Bradbury, J. T., significance of plant characteristics in relation to yield of gonadotropic material,
- Mitchell, L., and Henry, E. C., Georgia kaolin. I. Chemical and colloidal analysis. II. Mineralogical analysis, I, 212.
- Mitchell, L. C. See Weld, J. T.
- Mitchell, N., and Angrist, A., adrenal rests in kidney, III, 390. Focal necrosis of adrenal cortex, III, 476.
- Mitchell, R. B. See Clark, F. E.
- Mitchell, R. L. See Wager, L. R.
- Mitchell, W. C. See Rumreich, A. S.
- Mitchell, W. J. See Knouf, E. G.
- Mitra, R. P., and Ghosh, K. C., effect of non-electrolytes on pH and specific conductivity of hydrogen-clay soils, I, 172.
- and Ray, S. P., free and titratable acids per particle of subfractions of hydrogen-clay, I, 172.
- See also Mukherjee, J. N.
- Mitra, S. K. See Chandra, K.
- Mitropolitanskaja, R. L., acetylcholine and choline-esterase in protozoa, spongia, and coeleuterata, III, 842.
- Mittal, D. S., condensation of chlorodinitrotoluenes with p-nitrosodimethylaniline, II, 163.
- Mittelmann, R., and Palmer, R. C., steric factor in permanganate oxidation of triolein monolayers, I, 14.
- Mittenzwei, H., bacteriochlorophyll. III., II, 107.
- Mitter, P. C., and Mukherjee, S., long-chain acids. V. Aleuritic acid, II, 23.
- Miton, K. L. See Tuggle, A.
- Miton, R. E. R., unilateral melanosis iridis, III, 877.
- Mixer, J. P., influence of thyroxine on stimulation of mammary lobule-alveolar growth, III, 476.
- Bergman, A. J., and Turner, C. W., relation of mammogenic lobule-alveolar growth factor of anterior pituitary to other anterior pituitary hormones, III, 113. Relation of endocrine glands to body weight in growing and mature guinea-pigs, III, 734.
- and Turner, C. W., pituitary weight of growing male rat related to body weight, III, 24. Influence of thyroxine on mammary lobule-alveolar growth, III, 33.
- Mixer, W. J., Tillotson, K. J., and Wies, D., partial and total frontal lobotomy on three patients, III, 98.
- Mizgareva, E. See Antropov, L.
- Mizoguchi, S. See Iwashita, K.
- Mizroch, J., insulation for necks of wash bottles, I, 103.
- Mizushima, S., and Morino, Y., intramolecular rotation in simple carbon-carbon linking, I, 52.
- Mocnik, W. See Schöpf, C.
- Modell, W., pharmacology of α-phenyl-β-(3:4-diodo-4-hydroxyphenyl)propionic acid (biliselectan), III, 53.
- See also Brown, G.
- Modern, F. See Repetto, O. M.
- Moe, G. K., and Krayer, O., action of veratridine, and cevine on isolated mammalian heart, III, 586.
- and Wood, E. H., vasodilator properties of a pancreatic extract, III, 869.
- See also Wood, E. H.
- Moe, O. See Lauer, W. M.
- Moe, R. See Brunschwig, A., and Scott, V. B.
- Möglich, F., light emission of solid insulators, I, 297.
- and Rompe, R., effect of thermal expansion on absorption spectrum of insulators, I, 80. Transformation of energy in crystalline phosphors, I, 249. Radiant properties and energy propagation in systems of densely packed similar atoms, I, 271.
- Rompe, R., and Timofeeff-Ressovsky, N. W., physical representation of mechanisms of energy transfer in zone of interaction [between radiation and molecules] in biological processes initiated by radiation, III, 425.
- See also Birus, K.
- Moehlig, R. C., intersexuality associated with malignant intra-abdominal teratoma of seminoma type, III, 32. Association of uterine fibromyomas with other clinical conditions, III, 32. Pitressin tannate in oil as haemostatic agent in menorrhagia and metrorrhagia, III, 647.
- Mollenstedt, G. See Koszel, W.
- Moller, E. F., and Birkofe, L., constitution-specificity of nicotinic acid as growth promoter of *Proteus vulgaris* and *Streptobacterium plantarum*, III, 356. Antagonism to nicotinic acid in its action towards *Proteus vulgaris* and *Streptobacterium plantarum* III, 356.
- Moeller, K. See Koster, W.
- Moeller, T., indium. VI. Effects of hydroxy anions on precipitation of hydrous indium hydroxide, I, 91. Graphic representation of ionic radii, I, 187. Colorimetric determination of indium, I, 236. Extraction and colorimetric determination of metals as derivatives of 8-hydroxyquinoline, I, 237. Basic indium salicylates, II, 33.
- See also Audrieth, L. F.
- Moersch, H. J., and Walters, W., gastroscopic observations in gastric distress following stomach operations, III, 328.
- and Weir, J. F., redundant gastric mucosa simulating carcinoma of stomach, III, 124.
- Moeschl, S., sedormid thrombocytopenia, III, 52. Drug fever and rigor after use of sulphathiazole and their chemospecificity, III, 265.
- Moetsch, J. C. See Raiziss, G. W.
- Moeuwis, F. See Kuhn, R.
- Moffett, R. B. See Schwenk, E.
- Mohamed, M. S., and Mrak, E. M., relation of variety and stage of development to composition of figs, III, 702.
- Mohammed, A. H., preparation of antiscorpion serum, III, 360. Preparation of scorpion toxin, III, 766.
- Mohan, B. N. See Mulligan, H. W., and Russell, P. F.
- Mohler, H., chemical war materials. XXVI. Volatility and persistence, I, 149. Chemical war-materials, I, 234.
- and Hartnagel, J., surface tension apparatus, I, 167.
- Mohnay, J. See Morgan, M. W.
- Mohr, C. F. See Reynolds, F. W.
- Mohr, J. L., and Wehrle, W., mounting media, III, 158.
- Moir, C., and Russell, C. S., effect of ergot alkaloids on involution of postpartum uterus, III, 590.
- Moir, R. A., sulphapyridine in Pfeiffer's bacillus meningitis, III, 906.
- Moiseev, P. S. See Schischakov, N. A.
- Mokeeva, E. I., and Mokeeva, N. I., behaviour of solid electronic semi-conductors at dissociation, I, 119.
- Mokeeva, N. I. See Mokeeva, E. I.
- Moldavan, A., multiple-loop method speeds bacterial counts, III, 687.
- Moles, E., physico-chemical constants of oxygen as gas-standard, I, 31.
- Molina-Ahumada, J. B., and Orías, O., glandular proliferation in endometrium of otter (*Myocastor-Myopotamus-coypu*), III, 810.
- Mollett, C. E. F. See Hoppe, J. O.
- Mollison, M. D. See Loufit, J. F.
- Mollison, P. L., investigation of haemolytic transfusion reaction, III, 546.
- See also Boorman, K. E., Dacie, J. V., and McMichael, J.
- Mollison, W. M., prevention of chronic otitis and deafness, III, 236. Deafness due to central lag, III, 319.
- Mollov, M., Winter, J. E., and Steinberg, P., advantage of thioglycollate medium in routine diagnostic bacteriology, III, 431. SS agar for isolation of *Eberthella*, *Salmonella*, and *Shigella* groups from faeces, compared with MacConkey and bismuth sulphite agars and tetrathionate broth followed by MacConkey agar, III, 776.

- Mollwo, E., identification of interference phenomena by scattering particles in interference fields, I, 272.
- Molnar, V., blood group tests of Budapest university students, III, 711.
- Molofsky, L. See Fox, T. T.
- Molomut, N. See Barach, A. L.
- Moloney, W. C., abnormal capillary fragility in newborn, III, 461.
See also Wiener, A. S.
- Moltschanova, I., histological structure of ovum of *Acipenser* at different stages of sexual maturity, III, 222.
- Monaco, A. R. See Hyslop, F.
- Moncreiff, W. F., and Scheribel, K. J., homatropine cycloplegia and paredrine, with reference to rate of accommodation recovery, III, 17.
- Mondal, K. L. See Neogi, P.
- Monitsch, V. K., absolute geological age of granites of Podnebesny pluton in the Kuznetsk Alatau, I, 106.
- Monnier, M., nervous system and fatigue, III, 594. Symptoms and neuro-muscular lesions in vitamin-E lack in adult rats, III, 634. Electroencephalography in man, III, 797.
- Monroe, C. F., Krauss, W. E., Sutton, T. S., and Pounden, W. D., incidence and control of milk fever, III, 503.
- Monroe, W. M. See Geiger, A. J., and Goodyer, A. V. N.
- Montagu, M. F. A., unique development of premaxilla in gorilla, III, 224. Mesethmoid-presphenoid relationships in primates, III, 782.
- Montalvan, P., prostigmine in treatment of glaucoma: its effect on intraocular pressure, III, 385.
- Monteith, G. E. See Munro, L. A.
- Montes, G. See Mendez, R.
- Montgomery, (Miss) E. M., Richtmyer, N. K., and Hudson, C. S., alkaline degradation of phenylglucosides; determining configuration of glucosides and sugars, II, 155.
- Montgomery, H. B. S., and Shaw, H., behaviour of thiuram sulphides, etc., in spore germination tests, III, 445.
- Montgomery, J. B., and De Vries, T., heat capacity of organic vapours. III. Comparison of flow calorimeters. IV. Benzene, fluorobenzene, toluene, cyclohexane, methylcyclohexane, and cyclohexene, I, 34, 43.
- Montgomery, M. L. See Sheline, G. E.
- Monti, L., quinazoline derivatives. III, II, 142. Osti, A., and Piras, S., quinazoline derivatives, II, II, 142.
- and Palmieri, S., preparation of 2-hydroxy-4-alkylquinoline-6-sulphonamides, II, 141.
- and Simonetti, A., quinazoline derivatives. I, II, 142.
- Montigel, C., effect of adrenal gland on phosphorylation of glycogen in muscle. III. Kinetics of phosphorolysis with muscle pulp in normal and adrenalectomised animals, III, 723.
- Montonna, R. E., and Winding, C. C., action of light on cellulose; viscosity-concentration relations of cellulose acetate solutions, I, 127.
- Monzingo, F. L. See Arey, L. B.
- Moog, F., distribution of phosphatase in spinal cord of chick embryos of one to eight days' incubation, III, 783.
- Mook, G. E. See Koerber, W. L.
- Mookerjee, A., alkaloid of *Rauvolfia canescens*, Linn. III. Degradation products of rauwolscine, II, 344. Active principles of bark of *Aegle marmelos*, Correa, II, 401.
- Moolten, R. R., and Bruger, M., exophthalmic goitre of juvenile type, III, 108.
- Moolten, S. E., duodenal ulcer following acute injury of spinal cord, III, 552.
- Moore, F. E., and Varley, N., utilisation of rumen contents as animal fodder, III, 178.
- Moor, E. See Prelog, V.
- Moore, A. M. See Buhle, E. L.
- Moore, C. R., and Morgan, C. F., first response of developing opossum gonads to equine gonadotropin treatment, III, 563.
- Moore, C. V., Minnich, V., Vilter, R. W., and Spies, T. D., hypochromic anaemia and vitamin-B deficiency, III, 862.
- Moore, D. H., Kabat, E. A., and Gutman, A. B., Bence-Jones proteinæmia in multiple myeloma, III, 303.
See also Abramson, H. A., Chargaff, E., Kabat, E. A., Levin, L., Reiner, L., Shapiro, S., and Treffers, H. P.
- Moore, E. See Julianelle, L. A., and Scheie, H. G.
- Moore, E. N., Henderson, H. O., Van Landingham, A. H., and Weakley, C. E., feeding as contributory factor in development of chronic mastitis, III, 120.
- Moore, F. D., Tobin, L. H., and Anb, J. C., distribution of radioactive dyes in tumour-bearing mice, III, 659.
See also Tobin, L. H.
- Moore, G. B., jun., Gardner, J. D., Bell, K. R., and Tannenbaum, A. J., sulphathiazole in cavernous sinus thrombophaletitis, III, 263.
- Moore, G. E., heat content of manganese dioxide and carbonate at high temperatures, I, 253. and Kelley, K. K., specific heats at low temperatures of anhydrous sulphates of iron, magnesium, manganese, and potassium, I, 120.
See also Kelley, K. K.
- Moore, H. P. See Voris, LeR.
- Moore, J. A., temperature and frog development, III, 859.
- Moore, J. E. See Reynolds, F. W.
- Moore, J. W., and Furgason, C. M., projection manometer for lecture demonstrations, I, 168.
See also Furgason, C. M.
- Moore, L. A., ocular changes and deficiency manifestations in mature cows fed by ration deficient in vitamin-A, III, 166. Activation of dicalcium phosphate for chromatographic determination of carotene, III, 219. Vitamin-A and carotene content of the blood plasma of calves from birth to four months of age, III, 497.
- Moore, L. R., and Cox, A. H., coal measure sequence in Taff Valley, Glamorgan, and its correlation with Rhondda Valley sequence, I, 244.
- Moore, L. V. See Coburn, A. F.
- Moore, M., chorioallantoic membrane of chick embryos and its response to inoculation with mycobacteria, III, 439.
See also Dayton, N. A., and Gray, M. G.
- Moore, M. L. See Miller, E.
- Moore, M. T. See Winkelman, N. W.
- Moore, P. H. See Martzloff, K. H.
- Moore, P. M., jun. See Van Ordstrand, H. S.
- Moore, R. A. See Andrus, W. de W.
- Moore, R. D., calcification of bone marrow in toxic hyperparathyroidism, III, 882.
- Moore, R. S. See Lucas, H. J.
- Moore, S., and Stein, W. H., determination of amino-acids by solubility-product method, II, 403.
- Moore, T., dental depigmentation in the rat, III, 497.
See also Bacharach, A. L., and Rodahl, K.
- Moore, T. E., and Watt, G. W., reactions of cobaltic, cobaltous, and ferrous oxides in liquid ammonia, I, 136.
- Moore, W. J. See Hughes, E. W.
- Moorhouse, W. W., gold mineralisation in minor igneous intrusions, I, 169, 241. Geology of zinc-lead deposit on Calumet Island, Quebec, I, 292.
- Mooser, H., immunisation against typhus fever, III, 610.
See also Loffler, W.
- Morales, M. F., thermoanalysis of organ and whole-animal respiration, III, 579.
See also Shock, N. W.
- Morales-Otero, P., and Pomales-Lebron, A., differentiation between *Brucella melitensis* and *Brucella abortus* by precipitation reaction, III, 848.
See also Krakower, C., and Pomales-Lebron, A.
- Moran, J. See Arnold, B. T.
- Moran, R. F., determination of precision of analytical control methods, I, 234.
- Moreau, H. O., [preparation of standard samples of] methylene-blue, II, 144.
- Moreau, J. See Cordier, P.
- Moreau, L., Chaudron, G., and Portevin, A., absorption of hydrogen by monocrystalline and polycrystalline iron, I, 59.
- Morehead, R. P. See Procter, I. V.
- Moreira, M. F. See Barman, J. M.
- Morel, E. L., pellagra in Nyasaland, III, 189.
- Morey, G. W., and Ingerson, E., solubility of solids in "gases" or "vapours," I, 225.
- Morgan, A. F., and Shimotori, Y., absorption and retention by dogs of single massive doses of various forms of vitamin-D, III, 336.
See also Shimotori, N.
- Morgan, A. H., and Fales, C. H., seasonal conditions and effects of low temperatures on thyroid glands of Amphibia. I. Adult *Triturus viridescens*, III, 238.
- Morgan, B. B., comparison of pH and population of *Trichomonas fetus*, III, 527.
- Morgan, C. F., normal development of opossum ovary from birth to maturity and its reactions to sex hormones, III, 859.
See also Moore, C. R.
- Morgan, C. T., and Wood, W. M., cortical localisation of symbolic processes in rat. II. Effect of cortical lesions on delayed alternation in rat, III, 796.
- Morgan, D. See Angle, F. E.
- Morgan, E. H. See Anson, B. J.
- Morgan, F. G., Simmons, R. T., and Biggs, C. L., pooled human plasma: testing for sterility in presence of antiseptics, III, 301.
- Morgan, H. R., pathological changes produced in rabbits by a toxic somatic antigen derived from *Eberthella typhosa*, III, 526.
- and Beckwith, T. D., immunological relationships of polysaccharides of mucoid organisms, of the typhoid-salmonella group, III, 214.
See also Cheever, F. S., and Favorite, G. O.
- Morgan, H. V., and Williamson, D. A. J., jaundice following administration of human blood products, III, 623.
- Morgan, I. M., Schlesinger, R. W., and Olitsky, P. K., induced resistance of central nervous system to experimental infection with equine encephalomyelitis virus in rabbits; neutralising antibody in central nervous system in relation to cerebral resistance, III, 529.
- See also Olitsky, P. K., and Schlesinger, R. W.
- Morgan, J. E. See Loewenbach, H.
- Morgan, M. W., Mohney, J., and Olmsted, J. M. D., astigmatic accommodation, III, 877.
- Morgan, P. W. See Wolfson, M. L.
- Morgan, R., Summers, R. D., and Reimann, S. P., effects of motion on differences in hydrostatic pressure between ends of a semicircular canal, III, 320.
See also Summers, R. D.
- Morgan, R. F. See Gaines, W. L.
- Morgan, R. H. See Salter, W. S.
- Morgan, T. H., self-sterility in ascidians, III, 619.
- Morgan, W. T. J., artificial antigen with blood-group A specificity, III, 545.
- Morgan, Z. See Owings, J. C.
- Morgans, W. R., capture of a slow-moving directed electron in a Coulomb field of force, I, 270.
- Morgareidge, K., influence of solvent on ultraviolet absorption maximum of vitamin-A, III, 188.
- Morgulescu, I. G. See Spacu, G.
- Morgulis, S. M. See Epstein, S. H.
- Moriconi, A. F., vestibular tests as a diagnostic aid, III, 805.
- Morino, Y. See Mizushima, S.
- Morison, R. S. See Acheson, G. H.
- Moritz, A. R., medico-legal necropsy, III, 657.
See also Jetter, W. W.
- Morley, G. H., and Bentley, J. P., propamidine in burns, III, 761.

- Morlock, C. G., and Hall, B. E., association of cirrhosis, [splenic anaemia], thrombopenia, and haemorrhagic tendency, III, 865.
See also Eusterman, G. B.
- Morningstar, W. See Gross, P.
- Moros, N., alcoholic personality: statistical study, III, 589.
- Morrell, C. A. See Pugsley, L. I.
- Morrell, E. See Williams, D. E.
- Morrell, W. E. See Long, R. W.
- Morris, A. See Marsden, R. J. B.
- Morris, A. C., Munn, L. T., and Anderson, G., system ethanol-methanol at 40°, I, 62.
- Morris, D. L., effect of intravenous injection of corn glycogen in rabbits, III, 670. Hydrolysis of starch and glycogen by blood-amylase, III,
- Morris, D. P., blood pressure and pulse changes in normal individuals under emotional stress and their relationship to emotional instability, III
- Morris, H. P., and Robertson, W. v. B., growth rate and number of spontaneous mammary carcinomas and riboflavin concentration of liver, muscle, and tumour of *C3H* mice as influenced by dietary riboflavin, III, 749.
- Morris, J. C., infra-red and Raman spectra of polyatomic molecules. XIX. Acetaldehyde and tetradeuterocetaldehyde, I, 191.
- Morris, J. E. See Oldenberg, O.
- Morris, L. W. See Schwartz, M. C.
- Morris, N. See Anderson, W. F.
- Morrison, A. L. See Bergel, F.
- Morrison, B. M. See Handler, P.
- Morrison, F. B. See Miller, J. I.
- Morrison, F. R. See Penfold, A. R.
- Morrison, H. J., and Neville, R. L., omphalocele with congenital obstruction, III, 858.
- Morrison, M., Samwick, A. A., and Landsberg, E., sickle-cell anaemia in white race, III, 370.
- Morrison, S., and Feldman, M., psychosomatic correlations of duodenal ulcer, III, 564.
- Morrissey, R. W. See Clark, B. B.
- Morrow, E. B., and Darrow, G. M., relation of number of leaves in November to number of flowers the following spring in the Blakemore strawberry, III, 698.
- Morrow, R. W. See Hazlet, S. E.
- Morse, A. H., and Rubin, I. C., effects of oxytocics on tubal contractions in rhesus monkeys, III, 649.
- Mortensen, R. A., absorption of lead tetraethyl with radioactive lead as indicator, III, 834.
- Mortimer, B., and Kirshbaum, J. D., human double monster (so-called Siamese twins), III, 78.
- Morton, A. A., Best, R. J., and Davidson, J. B., condensations by sodium. XXI. Sodium *n*-octyl and *n*-decyl, II, 114.
- Clarke, E. F., Davidson, J. B., Gibb, T. R. P., jun., Green, A. G., and Little, E. L., jun., condensations by sodium. XXV. Reactions of sodium amyl with naphthalene, acenaphthene, and decahydronaphthalene, II, 114.
- Darling, B., and Davidson, J. B., flask design and high-speed stirring, I, 73.
- Davidson, J. B., and Hakan, B. L., condensations by sodium. XXIII. Wurtz reaction. II. Second phase, II, 114.
- Davidson, J. B., and Newey, H. A., condensations by sodium. XXII. Wurtz reaction; initial step, II, 114.
- Little, E. L., jun., and Strong, W. O., jun., condensations by sodium. XXVI. Metallation of benzene, toluene, and xylene; orienting influence of sodium and the influence of alkyl groups on metallation, II, 345.
- and Newey, H. A., condensations by sodium. XXIV. Pyrolysis of sodium amyl, II, 114.
- and Patterson, G. H., condensations by sodium. XXVII. Disodium furylene; aromatic properties of furan, II, 345.
- Morton, D. G., and Hayden, C. T., incidence of ovulation determined by endometrial biopsy, III, 738.
- Morton, H. See Dees, S. C.
- Morton, H. E., Petri dish holder, III, 276.
- and Anderson, T. F., morphology of *Leptospira icterohaemorrhagiae* and *L. canicola* as revealed by the electron microscope, III, 604.
- Morton, J. J., surgical treatment of primary duodenal diverticula, III, 483. Present status of carcinogens and hormones in cancer research, III, 819.
- Morton, L. B., prognosis of malignant papillary cystic tumours of ovary, III, 333.
- Morton, M. E., and Chaikoff, I. L., formation *in vitro* of thyroxine and di-iodotyrosine by thyroid tissue with radioactive iodine as indicator, III, 321.
- Chaikoff, I. L., Reinhardt, W. O., and Anderson, E., radioactive iodine as indicator of iodine metabolism. VI. Formation of thyroxine and di-iodotyrosine by thyroidectomised animal, III, 506.
- Morton, R. A. See Bacharach, A. L.
- Moschowitz, E., validity of nephrosis as nosological concept, III, 566.
- Moschkov, B. S., photoperiodic after-effect, III, 854.
- Moser, nutritional value of soya bean, III, 751.
- Moser, F. See Brown, A. P.
- Moses, H. E. See Feldman, W. H.
- Moses, S. G. See Herrmann, H.
- Mosher, L. M. See Harris, R. S.
- Moshier, R. W., acraldehyde determination in presence of formaldehyde and acetaldehyde by polarographic method, II, 116.
- Mosiman, R. E., significance of subcutaneous scar tissue, III, 399.
- Mosimann, H., sedimentation behaviour of cellulose nitrate fractions in relation to their molecular form, I, 144. Determination of mol. wt. and polydispersity for nitrocellulose fractions by means of sedimentation equilibrium ultracentrifuge, I, 200.
- and Svedberg, T., sedimentation and diffusion measurements with water-soluble polysaccharide from larch wood, I, 61.
- Moskowitz, S. See Greenburg, L.
- Moss, A. J. See Fink, D. L.
- Moss, E. S., and Squires, G. V., use of filtra-pak bags in rapid method for paraffin sections, III, 709.
- See also Schenken, J. R.
- Moss, F. K. See Luckiesh, M.
- Moss, M. L., and Mellon, M. G., colorimetric determination of iron with 2:2'-dipyridyl and with 2:2':2"-tripyridyl, I, 100. Colorimetric determination of copper with 1:10-phenanthroline, I, 163. Colorimetric determination of cobalt with tripyridyl, I, 164.
- Mellon, M. G., and Smith, G. F., colour reactions of *o*-phenanthroline derivatives, I, 137.
- Moss, R. E., Simmonds' disease caused by intracranial tumours, III, 112.
- and Long, W. E., toxic eruptions due to phenobarbital, III, 421.
- and Walker, B. S., pentosuria and diabetes mellitus in one patient, III, 567.
- See also Ingelfinger, F. J.
- Moss, W. G. See Shuler, R. H., and Wakerlin, G. E.
- Mostafa, A. See Schonberg, A.
- Mothes, K., nitrogen balance and loss of nitrogen [in plants], III, 72.
- Mottram, J. C., morphology of tumour cells, III, 40.
- and Weigert, F., transformation of benzpyrene in living skin of mice into compound soluble in dilute alkali, III, 127.
- See also Doniach, I., and Weigert, F.
- Motzok, I., Branson, H. D., Hill, D. C., and Slinger, J. S., A.O.A.C. chick method of vitamin-D assay, III, 755.
- Hill, D. C., Marcellus, F. N., and Slinger, S. J., comparison of procedures for removal of lipid material from bones of chicks, III, 364.
- Moubacher, R. See Schonberg, A.
- Moult, R. H. See Van Zile, B. S.
- Mousel, L. H., and Lundy, J. S., role of liver and kidneys from standpoint of the anaesthetist III, 911.
- See also Schmidt, H. W.
- Moussatché, H. See Ozorio de Almeida, M.
- Movitt, E. J. See Baldwin, F. M.
- Mowat, J. H., Pilgrim, F. J., and Carlson, G. H., synthesis of vitamin-B₆, II, 276.
- Mowery, D. F., jun. See Hockett, R. C.
- Mowry, D. T., *a*-phenylethylenemalononitrile, II, 263. Ethyl *a*:*p*-dicyanocinnamate, II, 264.
- Moxon, A. L. See Anderson, H. D., Olson, O. E., and Rhian, M.
- Moy, J. A. E. See Staveley, L. A. K.
- Moyd, L., evidence of sulphide-silicate immiscibility at Gap Nickel Mine, Pennsylvania, I, 28.
- Moyer, A. W. See Melville, D. B.
- Moyer, C. A., and Beecher, H. K., central stimulation of respiration during hypoxia, III, 12. Variability of Hering-Breuer reflexes in dogs under sodium evipal anaesthesia, III, 12.
- Moyer, H. V. See Bogan, E. J.
- Moyer, J. C., and Tressler, D. K., determination of thiamin in vegetables, III, 188.
- Mozingo, R., Wolf, D. E., Harris, S. A., and Folkers, K., hydrogenolysis of sulphur compounds by Raney nickel catalyst, II, 293.
- Mrak, E. M., Douglas, H. C., and Phaff, H. J., sporulation stock medium for yeasts and other fungi, III, 520.
- Hansen, H. N., Phaff, H. J., and Vaughn, R. H., yeasts occurring in souring figs, III, 274.
- Phaff, H. J., and Vaughn, R. H., yeasts occurring on dates, III, 202.
- See also Mohamed, M. S.
- Mrozowski, S., $^{2}\text{II}_u - ^{2}\text{II}_g$ bands of CO_2^+ . II, I, 4. Arc spectrum of bismuth, Bi, I, 109. Emission spectrum of the ion CO_2^+ , I, 174.
- Muchatschev, V. M., laboratory stirrer, I, 320.
- Muchina, A. See Passinski, A.
- Mudaliar, A. L., macrocytic anaemia of pregnancy, III, 82.
- Mudd, S., changes in bacterial cell brought about by action of germicides and anti-bacterial substances as demonstrated by electron microscope, III, 430.
- Anderson, T. F., Chambers, L. E., Polevitzky, K., bacterial morphology as shown by electron microscope. II. Bacterial cell wall in genus *Bacillus*, III, 280.
- Anderson, T. F., Kast, C. C., Polevitzky, K., bacterial morphology as shown by electron microscope. III. Cell-wall and protoplasm in strain of *Fusobacterium*, III, 211.
- Anderson, T. F., and Polevitzky, K., bacterial morphology as shown by electron microscope. V. *Treponema pallidum*, *T. macrodendrum*, and *T. microdentum*, III, 923.
- See also Ehrlich, W. E., and Knaysi, G.
- Mühlemann, H., and Käsermann, H., filicin, III, 151.
- Mueler, K. D., and Kelly, E., effect of level of fat in diet on utilisation of vitamin-A, III, 187.
- Müller, A., hot wire oscilloscope blood pressure measurements in man, III, 629.
- Müller, Adolf, and Kindermann, L., many-membered cyclic compounds. XI. *cyclo-Dioctamethylene-di-imine* (1:10-diazacyclo-octadecane), II, 388.
- Müller, Alexander, and Bátyka, E., cholesterol thiocyanate, II, 374.
- and Wilhelms, A., thiocyanic esters of glucose and cellobiose, II, 355.
- Mueller, A. C., and Hamilton, C. S., synthesis of 1-substituted aminobenzo(f)quinolines, II, 338.
- Müller, A. E., innervation of stapedius muscle of rat, III, 12.
- Mueller, A. J. See Cox, W. M., jun., and Elman, R.
- Müller, C., galactorrhœa and corpus luteum, III, 890.

- Mueller, C. B., and Graham, E. A., influence of hypophysectomy on epithelisation of wounds and on fibroplasia, III, 112.
- Mueller, C. D., and Hutt, F. B., lopping of combs in White Leghorn females, III, 562. See also Hutt, F. B.
- Müller, D., and Holm, F., preparation of silica gel [for bacterial cultures], III, 276.
- Müller, E., and Tietz, E., magnetic investigations of organic substances. XX. True carbon diradical with *para* "free valencies," II, 359.
- Müller, F., and Reuther, H., standardising the pH scale and potential values of reference electrodes, I, 17.
- Müller, F. H., diffusion of gases through highly polymerised substances. II. Permeation of noble gases through organic films and its relation to their permeability to water, I, 151. Demonstrating the decrease of specific heat of a solid at low temperatures, I, 265. See also Fischer, C.
- Müller, G. C., and Rusch, H. P., irradiated benzpyrene and inhibition of urease activity, III, 915.
- Müller, Hans, choline metabolism. II., III, 44. and Immendorfer, I., choline metabolism. III. Metabolism of trimethylamine and its oxide, III, 260. See also Schramm, G.
- Müller, Hermann. See Fricke, R.
- Müller, H. F., and Overbeck, W., annual plants, III, 74.
- Müller, H. G. See Geiger, Ernst.
- Müller, H. O. See Dosse, J., and Ruska, E., Mueller, J. H., Jezukawicz, J. J., Schoenbach, E. B., and Miller, P. A., production of tetanus toxin on peptone-free media, III, 850. and Miller, P. A., growth requirements of *Clostridium tetani*, III, 281.
- Miller, P. A., and Seidman, L. R., comparison of antigenicities of hydrolysate and peptone tetanus toxoids in guinea-pig, III, 694. Antitoxin response in man to tetanus toxoids, III, 694. See also Schoenbach, E. B.
- Müller, M. See Poggi, A. R.
- Müller, Otfried, causation and treatment of bronchial asthma, III, 551.
- Müller, Otto. See Pummerer, R.
- Müller, O. H., oxidation-reduction potentials measured with the dropping mercury electrode. IV. Polarographic study of α -hydroxyphenazine, I, 37.
- Müller, P. B., standardisation of activity of aluminium oxide for chromatography, I, 282. Behaviour of oxalic acid during liver perfusion *in vitro*. VI., III, 36.
- Müller, R. See Taufel, K.
- Müller, S., anhydrides of mannitol, II, 1.
- Müller, W., clinical examination of hard of hearing, III, 167. Otoscopic picture in deafness, III, 555.
- Mueller, W. S., significance of tannic substances and theobromine in chocolate milk, III, 821.
- Mufson, J. A., and Chodoff, P., convulsions in Paget's disease; electroencephalographic observations, III, 99.
- Muir, R. D., Shamleffer, V. J., and Jones, L. R., antibacterial activity of sulphathiazole and its methyl derivative, III, 133. Use of synthetic medium in study of antibacterial effect of sulphathiazole, III, 607. See also Roberts, E. C., and Van Bruggen, J. T.
- Muirhead, E. E., Ashworth, C. T., Kregel, L. A., and Hill, J. M., experimental freezing shock: changes in body fluids and tissues, III, 306.
- Mukerjee, S. See Roy, A. N.
- Mukerji, B. See Dutt, N. K., and Guha, R. C.
- Mukherjee, J. N., Chatterjee, B., and Goswami, P. C., limiting exchange of aluminium ions from hydrogen-clays on addition of neutral salts, I, 172.
- Mukherjee, J. N., Ghosh, K. C., and Mitra, R. P., mixed cation effects in estimation of base-exchange capacities of hydrogen-clays, I, 172.
- and Gupta, N. C. S., velocity gradient method for measurement of viscous properties of non-Newtonian liquids, I, 72. Rotary viscometer for study of anomalous viscous properties, I, 72.
- Gupta, N. C. S., and Sen, K. C., measuring yield value, viscosity, and thixotropy, I, 72.
- Mukherjee, S. See Mitter, P. C.
- Mukhopadhyay, B. K., Subramanian, K. S., and Dunncliffe, H. B., colorimetric method for determining narcotic power of hemp drugs, III, 345.
- Mulay, A. S. See Young, W. R.
- Mulcahy, J. V. See Rumreich, A. S.
- Mulder, A. G., and Crandall, L. A., jun., cerebral metabolism in fat-fed dog, III, 757.
- Mulders, G. F. W. See Katz, L.
- Mulford, D. J., and Griffith, W. H., choline metabolism. VIII. Relation of cystine and of methionine to choline requirement of young rats, III, 44. See also Griffith, W. H.
- Mulholland, J. H. See Batterman, R. C., and Ryan, J. D.
- Mulinos, M. G., Lojkin, M. E., and Pomerantz, L., effects of pseudohypophysectomy (underfeeding), starvation, hormones, and ageing on ascorbic acid content of adrenal glands and liver of rat, III, 24. Metabolism and toxicology of ethylene glycol and its diacetate, III, 515.
- and Pomerantz, L., precocious developmental changes produced by adrenal cortical hormones, III, 23.
- Mull, J. W., determination of uric acid in whole blood and serum, III, 716.
- Mull, R. P. See Sciarini, L. J.
- Mullen, B. P., chronic duodenal obstruction, III, 246.
- Mullen, J. W., and Pacsu, E., starch studies: preparation and properties of starch triesters, II, 57.
- Muller, N. W., and Peck, R. E., automatic and recording balance, I, 167.
- Mullick, D. N., Indian diets. I. Effect on health and wellbeing of three generations of rats. II. Effect on chemical composition of bone and teeth. III. Histological technique for assaying nutritional value of the dietaries. IV. Study of calcification, III, 494.
- Mulligan, F. See Ebbs, J. H.
- Mulligan, H. W., Russell, P. F., and Mohan, B. N., active immunisation of fowls against *Plasmodium gallinaceum* by injections of killed homologous sporozoites, III, 60.
- See also Russell, P. F.
- Mulligan, R. M., comparison of needle and trephine in study of human sternal marrow, III, 4. Histological studies on canine female genital tract, III, 225. Metastasis of mixed tumours of salivary glands, III, 492. Effects of repeated small doses of Roentgen rays on canine blood and bone-marrow, III, 679.
- See also Fisher, C. E.
- Mulliken, B. See Turner, J. C.
- Mulliken, R. S., electronic structures and spectra of triatomic oxide molecules, I, 175. Structure and ultra-violet spectra of ethylene, butadiene, and their alkyl derivatives, I, 176.
- and Rieke, C. A., bond integrals and spectra, I, 142.
- Mullins, L. J., phosphate uptake of yeast, III, 916.
- Mulvaney, J. H. See Wakeley, C. P. G.
- Mulvey, B. E., and Riely, L. A., familial syringomyelia and status dysraphicus, III, 97.
- Munch, J. C., poison antidotes, III, 198.
- Muncie, W., chronic fatigue, III, 140.
- Mundell, D. B. See Mendel, B.
- Mundy, B. W. See Billman, J. H.
- Munekata, H. See Sakaguchi, K.
- Munk, L. See Tankó, B.
- Munks, B. See Beach, E. F.
- Munn, L. T. See Morris, A. C.
- Munoz, J. de L. See under De Larechea Muñoz, J.
- Muñoz, J. E., fluorinated waters, I, 288.
- Muñoz, J. M., and Leloir, L. F., fatty acid oxidation by liver enzymes, III, 597.
- Munro, H. N. See Bell, G. H.
- Munro, L. A., Dewar, D. J., Gertsman, S., and Monteith, G. E., effect of gel water on catalytic activity. III. Decomposition of formic acid over alumina, I, 158.
- and Monteith, G. E., synergies of silica gels containing addition agents, I, 61.
- Munro, R. See Brickner, R. M.
- Munro, S. S. See Kosin, I. L.
- Munsell, H. E., riboflavin content of common foods, III, 255.
- Munslow, R. A. See Sullivan, J. M.
- Munson, E. S., emmetropia, III, 470.
- Munson, P. L. See Kenyon, A. T.
- Muntwyler, E. See Harkness, D. M.
- Muntz, J. A., production of acids from glucose by dental plaque material, III, 602.
- Murakawa, K., electrical quadrupole moment of the iodine nucleus, I, 215.
- Muralt, A. von, fatigue, III, 199. Electrical determination of pulse wave velocity, III, 630.
- Murdoch, J., crystallographic notes; cristobalite, stephanite, and natrolite, I, 171. Crystallography of hureaulite, I, 242.
- Murdock, E. T. See Deeny, J.
- Murdock, H. D. See Witkowski, L. J.
- Murer, H. K., and Crandall, L. A., jun., effect of pectin on retention of dietary lead (radium-D), III, 194.
- Murgier, (Mlle.) M. See Cordier, (Mlle.) M.
- Murgulescu, I. G., and Drăgălescu, C., use of hexamminocobaltic salts (luteocobalt salts) in quantitative analysis. I. Gravimetric determination of ferricyanide, I, 24.
- Murlin, W. R. See Anderson, J. A. A.
- Murneek, A. E., relative carbohydrate and nitrogen concentration in new tissue produced on ringed branches, III, 613. Physiological factors in growth and reproduction of trees, III, 697.
- and Wittwer, S. H., relation of sexual reproduction to development of horticultural plants. I. Flower and fruit production, III, 537.
- Murphree, R. L. See Casida, L. E.
- Murphy, A. J. See Beecher, H. K.
- Murphy, D., Keane, J., and Nolan, T. J., chemical constituents of lichens found in Ireland; *Lecanora parella*, Ach.; constitution of variolic acid, II, 242.
- Murphy, E. F., ascorbic acid content of onions and observations on its distribution, III, 257.
- Murphy, Francis D., and Purcell, J., insulin reaction and cerebral damage that may occur in diabetes, III, 874.
- Murphy, Franklin D., Clark, J. K., and Flippin, H. F., 2-sulphanilamido-4-methylpyrimidine (sulphamerizine, sulphamethyldiazine) in man, III, 672.
- See also Clark, J. K.
- Murphy, F. J., anaesthesia and anoxæmia in relation to use of nitrous oxide, III, 267.
- Murphy, H. W., and Jenkins, G. L., synthesis of compounds related to lysogenic acid, II, 312.
- Murphy, J. See Bronstein, I. P.
- Murphy, J. B., cancer research, III, 571. and Sturm, E., effect of sodium pentobarbital, *p*-dichlorobenzene, amyl acetate, and soxasol on induced resistance to transplanted leukæmia of the rat, III, 896.
- Murphy, J. M. See Dunn, H. O.
- Murphy, W. P., profile printing in photomicrography of blood cells, III, 780. and Hay, M. W. E., anaemia in hernia at oesophageal hiatus, III, 862.
- Murphy, W. T., clinical and physical significance of quality in radiotranslation therapy, III, 270.
- Murray, A. L. See Sievers, R. F.

- Murray, E., colour blindness and borderline cases, III, 105. Evolution of colour vision tests, III, 804.
- Murray, H. E., and Ahmed, H., chorion-epithelioma, III, 403.
- Murray, J. G., and Robertson, R. R., expulsion of mummified fetus by stilboestrol in cows, III, 172.
- Murray, J. M. See Spangler, J. M.
- Murray, J. W., automatic burette for dispensing volatile reagents, I, 167.
- Murray, M. F. See Powers, J. H.
- Murray, M. J. See Saunders, R. H., and Taufen, H. J.
- Murray, M. M. See Bromehead, C. N., and Kemp, F. H.
- Murray, M. R., and Stout, A. P., characteristics of human Schwann cells *in vitro*, III, 157. See also Stout, A. P.
- Murray, N. A., temperature studies on intravenous fluids, III, 89. Electric lantern slide pointer, III, 780.
- Murray, P. D. F., development of conjunctival papillae and of scleral bones in embryo chick, III, 298.
- Murray, S. D. See Ochsner, A.
- Murrill, W. A., and Block, W. D., constancy of chemical composition of serum-proteins regenerated on various dietary regimes, III, 714.
- Murti, P. B. R., and Seshadri, T. R., chemical components of the roots of *Decalepis hamiltonii*. V. Use of 4-methylresorcylic-aldehyde as a preservative, III, 294.
- Murty, G. V. L. N., and Seshadri, T. R., Raman effect and hydrogen bonds. V. Mixtures of acetic acid with ethers. VI. Chelate compounds; esters of salicylic acid and their mixtures. VII. Carboxylic acids. VIII. Solutions of coumarin in mineral acids, I, 6, 143, 193.
- Murty, K. S., and Seshadri, T. R., gossypol. II. Anilino-derivatives. III. Methylation, II, 93.
- Murty, V. V. S. See Rau, Y. V. S.
- Muruzabal, A. See Berinzaghi, B.
- Musajo, L., and Minchilli, (Sina) M., synthesis of 4:5-dihydroxyquinoline, II, 45.
- Musante, C., condensations between methoxy-acetonitrile and ketones; isoxxazole group, II, 48. Sulphonamide derivatives of isoxxazole, II, 48. isoOxazole-3:5-dicarboxylic acid, II, 144. Synthesis of diisoxxazole derivatives. II, II, 175. See also Quilico, A.
- Muschat, M., and Edeikin, L., renal displacement, III, 449.
- Muschitz, E. E., jun. See Simons, J. H.
- Mushatt, C. See Wintrobe, M. M.
- Mushett, C. W. See Silber, R. H.
- Muskalblit, E. See Tulipan, L.
- Musselman, M. M. See Bigard, J. D.
- Mustafa, (Miss) A. See Schonberg, A.
- Mustafa, (Miss) Z., and Soliman, G., melanthi-ginin and its identity with hederagenin, II, 137. See also Soliman, G.
- Mutch, J. R., and Mackay, D., detection and significance of melanophore-expanding substance in urine and blood with special reference to retinitis pigmentosa, III, 878.
- Muus, J. See Glenn, W. W. L.
- Myers, A. T., Brunstetter, B. C., Dix, I. W., and Magoon, C. A., spectrographic determination of eight elements in young leaves of Delaware grape, III, 699. Quantitative survey of eight mineral elements by spectrographic methods and of total nitrogen in young leaves of twenty-five varieties of American grapes, III, 699. See also Curran, H. R.
- Myers, E. E., laboratory shaking machine, III, 75. Suspending inverted bottle, III, 76. Hypodermic needle holder, III, 703.
- Myers, F. E. See Petrauskas, A. A., and Shull, C. G.
- Myers, G. B. See Clapper, M., Frisch, A. W., and Price, A. E.
- Myers, M. See Lewis-Fanning, E.
- Myers, R. R. See Smith, H. A.
- Myers, V. C., and Free, A. H., clinical enzyme studies; factor involved, clinical usefulness, and method for expressing enzyme activities, III, 518. See also Free, A. H.
- Myers, W. H., and Robertson, G. J., synthesis of amino-sugars. I, II, 155.
- Myerson, A., Loman, J., Rinkel, M., and Ritvo, M., prolonged effect of amphetamine sulphate in gelatin, III, 138.
- and Neustadt, R., bisexuality of man, III, 478.
- Myrback, K., investigation of constitution of starch from action on it of starch-splitting enzymes, II, 57. Enzymic degradation of starch; structure of starch molecules, II, 357. Limit dextrins and starch. V. Fermentability of starch breakdown products, III, 684. See also Örtenblad, B.
- N.
- Naboko, S. I., fluorine mineral occurring in sublimes of Klyuchevsky volcano, I, 105.
- Nachmansohn, D., Cox, R. T., Coates, C. W., and Machado, A. L., action of potential and enzyme activity in electric organ of *Electrophorus electricus* (Linn.). I. Cholinesterase and respiration, III, 793. Phosphocreatine as energy source of action potential, III, 793.
- Machado, A. L., Spiegelman, S., and Steinbach, H. B., localisation of enzymes in nerves. II. Respiratory enzymes, III, 793. and Steinbach, H. B., localisation of enzymes in nerves. I. Succinic dehydrogenase and vitamin-B₁, III, 13. See also Bullock, T. H.
- Nadkarni, V. V. See Kanvinde, C. K.
- Nadler, J. E. See De Graff, A. C.
- Naegeli, C., Kündig, W., and Suter, H., derivatives of 2-aminopyridine-5-sulphonamide and of pyrid-2-one-5-sulphonamide, II, 172.
- Nasanen, R., potentiometric determination of solubility product of manganese hydroxide, I, 35.
- Nafe, C. A., metabolic disturbances following thyroidectomy, III, 644.
- Naffziger, H. C., and Aird, R. B., regenerative capacities of nerve and muscle, III, 465.
- Nagaraj, B. S. See Lakshminarasimhaiah, A.
- Nagayama, T., Tomoi, T., and Sagara, T., determination of vitamin-C in urine, III, 667.
- Nagel, A., bactericidal action of targesin on diphtheria, pseudodiphtheria, and some virulent tubercle bacilli, III, 146.
- Nagel, G. See Schwaibold, J.
- Nagel, W., psycho-galvanic reflex as autonomic test, III, 639.
- Nagelschmidt, G., and Hicks, D., mica of coal-measure shales in South Wales, I, 212.
- Nageotte, E. See Leprince-Ringuet, L.
- Nagler, F. P. O. See Clark, E.
- Nagy, R. See Rentschler, H. C.
- Nagyfy, S. F. See Diddle, A. W.
- Nahinsky, P., Rice, C. N., Ruben, S., and Kamen, M. D., tracer studies with radioactive carbon; synthesis and oxidation of three-carbon acids, I, 39. See also Ruben, S.
- Nahm, H. See Dirscherl, W.
- Nahum, L. H., Hoff, H. E., and Kaufman, W., S complex of electrocardiogram, III, 89.
- Naide, M., treatment of leg ulcers with blood and concentrated plasma, III, 516.
- Naidu, P. R. J., pigeonite in the "abnormal" dolerite dykes of charnockitic areas in Mysore, I, 289.
- Naidus, H. See Goldfinger, G.
- Naimpally, R. B., Barve, P. M., and Desai, B. N., effect of light and ageing on colloidal solutions of ferric hydroxide and thorium hydroxide, I, 89. See also Barve, P. M.
- Nair, M. A., diseases of visual apparatus: ancient and modern, III, 16.
- Najjar, V. A. See Ward, Robert, and Wintrobe, M. M.
- Nakamura, F. I., and Mitchell, H. H., utilisation for haemoglobin regeneration of the iron in salts used in enrichment of flour and bread, III, 455.
- Nakamura, T. See Kawai, S.
- Nalbandjan, A. B., spontaneous ignition of $2\text{H}_2 + \text{O}_2$ mixtures in silver vessels, I, 156.
- Nalbandov, A., and Card, L. E., effect of hypophysectomy on basal metabolism of growing chicks, III, 323.
- Nametkin, S. S., and Dzbanovski, N. A., synthetic production of growth substances, II, 103.
- Dzbanovski, N. A., and Rudnev, A. G., synthesis of γ -3-indolylbutyric acid by a new procedure, II, 103.
- Namjoshi, A. N., and Devadatta, S. C., vitamins, minerals, carbohydrates, and proteins in tubers. I; III, 446.
- Nantka, P. L. See Koenigs, E.
- Narasimham, M. See Pal, S. N.
- Naray-Szabo, S. von, structure of leucite, KAlSi_3O_8 , I, 44.
- and Poccia, J., structure of silver chlorate, AgClO_3 , I, 32.
- Narayana, J. V. See Bhagavantam, S.
- Nargund, K. S. See Bhatt, B. L., Dave, K. P., Mehta, S. U., Paranjpe, K., and Trivedi, J. J.
- Narikashvili, S. P. See Gerschuni, G. V.
- Nash, C. S., residual hearing, III, 107.
- Nassau, E., effect of blood charcoal on growth of tubercle bacilli, III, 67.
- Nastiuksa, O. See Roskin, G.
- Nastuk, W. L. See Allison, J. B.
- Nelson, S., and Gottfried, S. P., synthesis of derivatives of *s*-diphenylethane related to materials occurring naturally. IV. Stilbene-2-acetic acid, II, 131.
- Naterman, H. L., effect of zinc on stability of pollen tannate, III, 532.
- and Robins, S. A., skin test to diodrast, III, 248.
- Nath, H. P. See Basu, K. P.
- Nath, M. C., sensitive colour reaction for steroids, II, 198.
- and Chakraborty, M. K., colour reaction of steroids in relation to their structures, II, 198.
- Nathan, (Miss) A., effect of pH on viscosity changes in thorium phosphate gel-forming mixtures during setting, I, 256. Effect of pH on time of setting of thorium phosphate gel-forming mixtures, I, 305.
- Nathan, A. H., Hunter, J. H., and Kolloff, H. G., sulphanilamide compounds. VIII. Homologues of 2-sulphanilamidothiazoline, II, 282.
- Nathan, C. C., Wallace, W. E., and Robinson, A. L., heats of dilution and relative heat contents of lanthanum chloride and sulphate solutions, I, 228.
- Nathan, P. W., and Turner, J. W. A., efferent pathway for pupillary contraction, III, 311.
- Nathanson, I. T., aetiology of breast disease. I. Urinary excretion of gonadotropin, oestrogens, and 17-ketosteroids in adolescent males with mastitis, III, 120.
- and Aub, J. C., excretion of sex hormones in abnormalities of puberty, III, 891.
- Nathanson, M. H., and Engelberg, H., comparative pressor effects of *p*-hydroxyphenyl-isopropyl-amine (paredrine) and -methyl-amine (paredrinol), III, 343. Effect of paredrine on blood specific gravity and blood volume, III, 343.
- National Veterinary Medical Association, use of stilboestrol dipropionate in cattle practice, III, 172.
- Naumann, H. N., Plotz, M., and Reich, N. E., urea spot test for detection of [blood]-nitrogen retention, III, 304.
- Naumer, H. A., reactions and agglutinin responses to typhoid immunisation, III, 526.

- Naval Laboratory Research Unit No. 1, quantitative micro-pipette for intranasal inoculation of mice with virus suspensions, III, 61.
- Naves, Y. R., volatile plant substances. XXIII. Presence of *n*-octan- γ -ol and its acetate in oil of pennyroyal (*Mentha pulegium*, L.). XXIV. Composition of essential oil and resin of lovage (*Levisticum officinale*, Koch), II, 317, 367.
- and Bachmann, P., Demjanoff's reaction for enlargement of rings, II, 357.
- and Grampoloff, A. V., diphenylurethane of nerol, II, 350. Volatile vegetable substances. XX. Composition of light petroleum extract (concrete oil) of jasmine flowers, III, 539.
- Papazian, G., and Perrottet, E., volatile vegetable substances. XXII. Composition of "natural" cedrene and constitution of "synthetic" cedrene, II, 202.
- Nayer, H. R., chronic pulmonary changes and bronchial ulceration in electric arc welder, III, 425.
- Naylor, H. B. See Sherman, J. M.
- Naylor, R. F. See Cook, A. H.
- Naylor-Strong, E., prevention of chronic otitis and deafness, III, 236.
- Neal, J. B., Bulgarian belladonna treatment of chronic encephalitis, III, 196.
- Neal, P. A., Schneiter, B., and Caminita, B. H., infection from cotton bacterium, III, 433. See also Oettingen, W. F. von, and Schneiter, R.
- Neal, W. See Huggins, C.
- Nebe, E. See Emmrich, R.
- Necheles, H., Dommers, P., Weimer, M., Olson, W. H., and Rydel, W., depression of gastric motility without elevation of body temperature after injection of pyrogens, III, 245.
- See also Kunstadter, R. H., Meyer, J., Neuwelt, F., Popper, H. L., and Reingold, I. M.
- Needham, D. M. See Needham, J.
- Needham, J., and Needham, D. M., biochemistry of embryonic determination in echinoderms, III, 155.
- Needier, A. W. H. See Gibbard, J.
- Neelakantam, K., Rao, P. S., and Seshadri, T. R., chemical components of Indian tulip (*Thespesia populnea*) flowers, II, 170.
- and Row, L. R., fluorescence reaction for detection of boric acid, I, 162. Fluorescence reactions with boric acid and *o*-hydroxy-carbonyl compounds; their application in analytical chemistry, II, 288.
- Neeman, M. See Bergmann, F.
- Nefedov, E. I., minerals in pegmatites of Adun-Cholon (Transbaikalia), I, 108.
- Neff, F. C., Tice, G., Walker, G. A., and Ockerblad, N. F., adrenal tumour in female infant with hypertrichosis, hypertension, overdevelopment of external genitalia, and obesity, but without breast enlargement, III, 110.
- Neff, G., treatment of toxic diphtheria, III, 830.
- Negus, V. E., mechanism of swallowing, III, 813
- Neher, H. V. See Millikan, R. A.
- Neill, R. B., dichromate-ferrous sulphate method for [determining] antimony, I, 138.
- Neill, B. M., chromatic behaviour in teleosts, III, 80. See also Waring, H.
- Neiman, M. B. See Dobrinskaja, A. A., and Michailova, M. N.
- Nelson, D., Goetzl, S., Robins, S., and Ivy, A. C., carrot diet and susceptibility to acute anoxia, III, 721.
- Nelson, Elwood E., and Bonnell, W. S., solubility of hydrogen in *n*-butane, I, 122.
- Nelson, Ervin E., pressor response to acet-aldehyde and its potentiation by cocaine, III, 762.
- Nelson, F. E., growth of heat-treated bacteria. I. Comparison of four agar media, III, 687.
- Nelson, H. R. See Maier, M. S.
- Nelson, J., acquired sensitivity to sulphonamides, III, 264.
- Nelson, J. B., reciprocal transmission tests with infectious catarrh of chickens, rats, and mice, III, 68.
- Nelson, J. H., growth of coliform bacilli in water containing organic materials, III, 62. See also Bigger, J. W.
- Nelson, J. M. See Baker, D.
- Nelson, J. Walter. See McElvain, S. M., and Seibert, (Miss) F. B.
- Nelson, J. Wesley, and Palmer, L. S., thiamin, riboflavin, nototinic acid, and pantothenic acid contents of wild rice (*Zizania aquatica*), III, 151.
- Nelson, John W. See Kuizenga, M. H.
- Nelson, L. M., experimental blastomycosis in guinea-pig, III, 772.
- Nelson, M. C. See Jensen, N. K.
- Nelson, N. Elgart, S., and Mirsky, I. A., pancreatic diabetes in the owl, III, 47. See also Grayman, I., and Mirsky, I. A.
- Nelson, N. M., sclerotic plates of White Leghorn chicken, III, 153.
- Nelson, O. A., and Smith, L. E., vapour pressure of phenothiazine, I, 120.
- Nelson, O. E., and Maxwell, N., structure and function of urogenital region in female opossum, III, 153.
- and Swann, E., prepubescent growth of germ cells in ovary of *Didelphys virginiana*, III, 157.
- Nelson, P. M. See Swanson, P. P.
- Nelson, R. B., McGibbon, C., and Glyn-Hughes, F., arsenical encephalopathy, III, 677.
- Nelson, R. C. See Warkany, J.
- Nelson, T. See Roth, R. R.
- Nelson, W. See Snelling, C. E.
- Nelson, W. O. See Jones, R. G., Segaloff, A., and Weaver, H. M.
- Nenitescu, C. D., Cioranescu, E., and Maican, M., reactions catalysed by aluminium chloride. XXII. Synthesis of hydrophenanthrene derivatives, II, 360.
- Cioranescu, E., and Premetzky, V., reactions catalysed by aluminium chloride. XIX. Synthesis of stereoisomeric 1-keto-9-methyl-decahydronaphthalenes, II, 234.
- Cocora, D., and Gavat, I. G., wandering of halogen atoms in carbon chains and rings. V, II, 216.
- and Premetzky, V., reactions catalysed by aluminium chloride. XXI. Route to 8-methylhydrindan-1-one, II, 372.
- Neogi, P., and Mondal, K. L., compounds of gallium. V. Gallium alizarin lakes, gallium salts of geometrically and optically isomeric acids, and double sulphates with ethylene- and propylene-diamine sulphates, I, 233.
- Nepler, O. E., and Gurley, H., normal value for hippuric acid liver function test, III, 125.
- Nereson, N. See Greisen, K., and Rossi, B.
- Nerger, W. See Zetsche, F.
- Nesbett, F. B. See Buchanan, J. M.
- Nesbit, M. E. See Boyer, P. D.
- Nesbit, R. M., and Cummings, R. H., orchidectomy for prostatic carcinoma, III, 659.
- Nesbitt, S., excretion of coproporphyrin in hepatic disease, III, 485, 566.
- Nesmejanov, A. N. See Freidlina, R. C.
- Nesterova, J. S. See Schadlun, T. N.
- Neter, E., [treatment of] *Haemophilus influenzae* (type B) meningitis of children, III, 49. Effects of antimicrobial substances of biological origin on bacterial toxins, III, 67. Genus *Shigella* (dysentery bacilli and allied species), III, 285. Effect of benzylidemethyl-alkylammonium chlorides (zephiran) on tetanus toxin, III, 342. Survival of pneumococci in empyemic fluid; effect of sulphapyridine on their viability, III, 417. Action of sulphanilamide on haemolytic streptococci Lancefield groups A and D in growth-promoting and non-growth-promoting media, III, 438. Inhibitory effect of sulphonamides on development and growth of phage-resistant bacteria, III, 581. See also Loomis, T. A.
- Neth, A. See Halla, F.
- Nettleship, A., morphology of sarcomas derived from fibroblasts previously treated with methylcholanthrene *in vitro*, III, 748. Spontaneous mouse rhabdomyosarcoma, III, 749.
- Netzley, R. E., exercise tolerance test as measure of chronic fatigue in children, III, 679.
- Neubauer, C., diphtheritic heart disorders in children, III, 377.
- Neuberg, C., Cagan, R. N., and Lustig, H., enzymic reduction of furil and furoin, III, 770. and Lustig, H., preparation of -fructose 1:6-diphosphate by means of baker's yeasts, II, 83.
- Neuberger, A., and Sanger, F., availability of acetyl derivatives of lysine for growth, III, 900. See also Crammer, J. L., and Harris, H. A.
- Neuburger, K. T., Whitehead, R. W., Rutledge, E. K., and Ebaugh, F. G., pathological changes in brains of dogs given repeated electrical shocks, III, 15.
- Neufeld, A. H., and Collip, J. B., primary action of parathyroid hormone, III, 169.
- Neugebauer, N. See Rumpf, E.
- Neugebauer, T., scattering of light and Kerr constant of spherically symmetrical molecules, I, 51. Paramagnetism of molecules depending on electron spin, I, 220. Absolute diamagnetism of superconductors, I, 222.
- Neuhaus, A., anomalous mixed crystals. V. Anomalous mixed system potassium sulphate-Ponceau-red, I, 146.
- Neuhof, H., and Mencher, W. H., viability of testis after complete severance of spermatic cord, III, 481.
- Neuinim, H. G. See Terenin, A. N.
- Neumann, C., Cohn, A. E., and Burch, G. E., influence of character of examining room on peripheral blood vessels of normal, hypertensive, and senile subjects, III, 230. See also Burch, G. E.
- Neumann, F. W., Krider, M. M., and Day, H. G., biotin deficiency in rats fed purified diets containing succinylsulphathiazole and *p*-aminobenzoic acid, III, 830.
- Neumann, H., and Seeliger, R., dependence of size of liquid drops on their rate of formation, I, 220.
- Neumann, J. See Lavollay, J.
- Neumann, J. von. See Chandrasekhar, S.
- Neumann, M. B. See Keier, N. P.
- Neurath, H. See Cooper, G. R., Martin, D. S., and Putnam, F. W.
- Neuroth, L. See Schopf, C.
- Neur, E. N. See Tainter, M. L.
- Neustadt, R. See Myerson, A.
- Neuwahl, F. J., nicotinic acid in angina pectoris, III, 460.
- Neuweiler, W., vitamin-B₁ content of blood during parturition, III, 161. Action of pervitin on female reproductive system, III, 832. Blood-vitamin-C content of pregnant women, III, 866.
- Neuwelt, F., Levinson, S. O., Olsen, W., and Necheles, H., haemorrhage and serum infusion in dogs, III, 456. See also Reingold, I. M.
- Neuwohner, W., daily course of assimilation and respiration in halophytes, III, 73.
- Nevers, A. D. See Atkinson, E. R.
- Neville, R. L. See Morrison, H. J.
- Nevin, S. See Lawrence, R. D.
- New, G. B., and Hertz, C. S., malignant disease of face, mouth, pharynx, and larynx in first three decades of life, III, 185.
- Newburger, M. A., and Brown, F. R., effect of ether and starvation on liver-glycogen maintenance after various diets, III, 36.
- Newburgh, J. D., changes which alter renal osmotic work, III, 745.
- Newburgh, L. H., obesity, III, 414.
- Newell, F. W. See Critchfield, L. R.
- Newerla, G. J., history of discovery and isolation of male sex hormone, III, 481.
- Newey, H. A. See Morton, A. A.

- Newhall, S. M., Nickerson, D., and Judd, D. B., report of U.S.A. sub-committee on spacing of Munsell colours, III, 878.
See also Nickerson, D., and Sloan, L. L.
- Newhouse, W. H. See Frondel, C.
- Newkirk, A. E. See Laubengayer, A. W.
- Newman, A. B., peptic ulcer in childhood, III, 124.
- Newman, B., and Gitlow, S., erythrocyte in aged male and female, III, 621.
See also Rafsky, H. A.
- Newman, H. W., and Abramson, M., intoxicating effect of alcoholic beverages, III, 677.
Abramson, M., and Fletcher, E., alcohol and driving, III, 589.
See also Van Winkle, W.
- Newman, M. S., leakproof stopcock for distillation, I, 103. Enolisation in Reformatsky reaction, II, 36. Formation of anthraquinone from *o*-benzoylbenzoic acid, II, 95.
and Zahm, H. V., catalytic dehydrogenation of 2-substituted 5:6:7:8-tetrahydronaphthalene derivatives, II, 300.
- Newman, M. T., metric study of undeformed Indian crania from Peru, III, 708.
- Newman, W. See Landow, H., and Wolf, A.
- Newsome, P. T. See Sheppard, S. E.
- Newton, A., polyisopropylbenzenes. I. Preparation and properties of two di-, two tri-, and one tetra-isopropylbenzene, II, 222.
- Newton, R. F. See Shapiro, E.
- Ney, W. O., Crouch, W. W., Rannefeld, C. E., and Lochte, H. L., petroleum acids. VI. Naphthenic acids from Californian petroleum, II, 263.
See also Quebedeaux, W. A.
- Neyman-Pilat, E., and Pilat, S., properties of synthetic lubricating oils; cyclic hydrocarbons with 22 carbon atoms per molecule, II, 125.
- Nezamis, J. See Ingle, D. J.
- Nicholas, R. See Wolman, I. J.
- Nicholes, H. J., Boynton, B. L., and Herrin, R. C., changes in creatinine clearance and urine flow of dog during fever, III, 126.
- Nicholls, P. M., Simmons, N. L., and Croxford, H. D., photochemical decomposition of carbon disulphide, I, 22.
- Nicholls, L., and Nimalasuria, A., nutrition and economic position of Ceylon, III, 493.
- Nichols, A. A., and Wolf, J. Z., recovery of bacteriophage, III, 527.
- Nichols, H. J. See Wrenshall, G. A.
- Nichols, H. M. and Diack, A. W., nylon as suture material, III, 615.
- Nichols, M. L., and Olsen, J. S., determination of fluorine in organic compounds with cerous nitrate, II, 286.
- Nichols, R. E., erythrocyte sedimentation; anticoagulation as technical source of variations, III, 82.
- Nichols, S. See Raffetto, J. F.
- Nicholson, C., accurate pelvimetry, III, 365.
- Nicholson, D. G., adsorption of simple and complex cobalt ions on titanium dioxide, I, 124.
- Nicholson, H. C., Takahashi, W. Y., and Hong, J., influence of adrenal cortical insufficiency on response of muscle to motor nerve stimulation, with reference to the fifth stage of neuromuscular transmission, III, 465.
and Trimby, R. H., continuously recorded alterations in buoyancy of anaesthetised dogs produced by respiratory modifiers, III, 633.
- Nick, H. See Clotofski, E.
- Nickel, W. F. See Andrus, W. De W.
- Nickerson, D., and Newhall, S. M., psychological colour solid, III, 878.
See also Granville, W. C., Kelly, K. L., and Newhall, S. M.
- Nickerson, N. D. See Lewis, R. N.
- Nickols, L. C., examination of spectrographic plates taken in forensic work, III, 296.
- Nicod, J. L., and Regamey, J., colchicine treatment of experimental cancer in mice, III, 819.
- Nicolet, B. H., Shinn, L. A., and Saidel, L. J., hydroxyamino-acids of milk-proteins, III, 488.
See also Hall, S. R.
- Nicoll, E. A., principles of exercise therapy, III, 679.
- Niculescu, M., effect of boric acid on caramelisation of sugars, II, 294.
and Caplescu, N., volumetric determination of glucose, II, 403.
- Niebauer, J. J. See Schulte, J. W.
- Nieder, J. B., and Hart, W. F., phenylthiol-thiazolines, II, 109.
and McCoy, J. S., indirect phenol-aldehyde condensations, II, 227.
and Ziering, A., symmetrical cyanostilbenes, II, 61.
- Niedzelski, E. L., and Nord, F. F., Gattermann reaction, II, 264.
- Niekirk, J. N. van, crystal structure of 4:4'-dinitrophenyl [$C_{12}H_8(NO_2)_2$], I, 221.
See also Rapson, W. S.
- Niel, C. B. van, and Cohen, A. L., metabolism of *Candida albicans*, III, 58.
- Nield, C. H. See Zimmerli, A.
- Nielsen, A. H., vibration-rotation energies of linear X-Y-Z type molecule, I, 191.
- Nielsen, C. E., and Powell, W. M., mesotron mass and heavy tracks on Mt. Evans, I, 247.
- Nielsen, E., and Elvehjem, C. A., growth-promoting effect of folic acid and biotin in rats fed succinylsulphathiazole, III, 190.
- Shull, G. M., and Peterson, W. H., response of bacteria, yeast, and rats to [hydrogen] peroxide-treated biotin; intestinal synthesis of biotin in rats, III, 501.
- Nielsen, H. H., near infra-red spectrum of water vapour. II. Parallel bands v_3 , $v_1 + v_3$, $v_2 + v_3$ and perpendicular band v_1 , I, 80.
and Shaffer, W. H., *l*-type doubling in linear polyatomic molecules, I, 175.
See also Lagemann, R. T.
- Nielsen, L. E. See Redlich, O.
- Nielsen, M. See Asmussen, E.
- Nielsen, J. P., determination of starch; index to maturity in starchy vegetables, III, 539.
- Niemann, C., and Hays, J. T., [attempted] synthesis of aldehydes from acyl hydrazides, II, 194. Relation between structure and histamine-like activity, III, 344.
- Niemann, F., and Stephenson, S. T., comparison of X-ray line breadth and internal friction for α -brass as affected by cold-working and annealing, I, 53.
- Nier, A. O. See Olsen, N. S.
- Nierenstein, M., the first chemical reagent, I, 241. Identity of laguncurin, kino-yellow, and maclurin, II, 206.
- Niethammer, A., effect of a carbon disulphide preparation on common microscopic soil fungi, III, 203.
- Niggli, F. See Baur, E.
- Nightingale, G. T., physiological-chemical functions of potassium in crop growth, III, 699.
- Nihous, imbibition capacity of mature seeds and grains, III, 216.
- Nikitin, B. A. See Joffe, E. M.
- Nikitin, I. M., action of native anaesthetic drug lipacaine on eye, III, 235.
- Nikitina, N. A. See Kararinova-Oknina, V. A.
- Nikitskaja, E. S. See Lurie, S. I.
- Niklas, H., and Genninger, C., oxidation of solutions of humic acids and related substances, II, 347.
- Nikolic, L. See Pushin, N. A.
- Nilson, H. W., and Schaller, J. W., nutritive value of agar and Irish moss, III, 252.
- Nilsson, G., aspects of differential diagnosis of obstructive and neural deafness, III, 474.
- Nilsson, T. See Smith, L.
- Nimalasuria, A. See Nicholls, L.
- Nims, L. F., Gibbs, E. L., and Lennox, W. G., arterial and cerebral venous blood; changes produced by altering arterial carbon dioxide, III, 9.
- See also Bullock, T. H., and Kennard, M. A.
- Nishina, Y., Kimura, K., Yasaki, T., and Ikawa, M., disintegration products from uranium irradiated with fast neutrons, I, 47.
- Nishioeda, M. See Yamafuji, K.
- Nissan, A. H. See Dunstan, A. E.
- Nitardy, F. W. See Hulsman, J. D.
- Niven, C. F., jun., Smiley, K. L., and Sherman, J. M., hydrolysis of arginine by streptococci, III, 284.
See also Gunsalus, I. C., Sherman, J. M., and Smiley, K. L.
- Nixon, M. W. See Post, K.
- Noxon, W. C. W., diet in pregnancy, III, 251.
- Niyogi, A. K., complement fixation of human serum in *Plasmodium vivax* infection with *P. knowlesi* antigen, III, 521. Effect of *Plasmodium knowlesi* antigen on acute and chronic infections with homologous strain of parasite in *M. rhesus*, III, 521.
and Ray, J. C., complement fixation test in kala-azar, III, 521.
and Roy, A. N., *in vitro* cultivation of *Plasmodium knowlesi* by modified Bass and Johns method, III, 522.
- Noack, K., and Timm, E., proteins in chloroplasts and cytoplasm of spinach leaves, III, 75.
- Noble, M. V. See Garrett, A. B.
- Nocito, V. See Green, D. E.
- Nolke, F., volumetric determination of fluorine by means of zirconium-alizarin lake, I, 262.
- Noether, H. D., infra-red spectrum of polyatomic molecules. XVI. Trideuteromethyl chloride and bromide. XVII. Trideuteromethyl deuterocalcohol and trideuteromethyl alcohol, I, 30, 80. The ratio rule, I, 115.
- Nolan, L. E., comparison of Rytz, Kahn, and complement-fixation tests for syphilis in large series of adult males, III, 213. Evaluation of laboratory procedures in determination of basal metabolic rate, III, 756.
- Nolan, L. S. See Hubbell, R. B.
- Nolan, P. J., recombination law for weak ionisation, I, 245.
- Nolan, T. J. See Breden, T. W., and Murphy, D.
- Noller, C. R., heating device for micro-beakers, flasks, and centrifuge tubes, I, 42.
and Barusch, M. R., apparatus for small-scale catalytic hydrogenation, I, 103. Saponins and sapogenins. XXII. Composition and constitution of betogenin, II, 333.
and Castro, A. J., composition of magnesium alkyl chloride solutions in ethyl ether, II, 114.
- Harris, G. H., Smith, R. A., and Walker, J. W., saponins and sapogenins. XX. Colour reactions of triterpenoid sapogenins, II, 169.
See also Lieberman, S.
- Nolte, A., and James, L. H., germicidal power of *o*-phenylphenol compounds compared with standard chlorine disinfectants in presence of oyster liquor, III, 277.
- Nonidez, J. F., arterio-venous anastomoses in sympathetic chain ganglia of dog, III, 9.
- Nora, E. D., heart in experimental thyrotoxicosis, III, 631.
- Nord, F. F. See Kulpinski, M. S., Niedzelski, E. L., Rampino, L. D., Sciarini, L. J., and Wirth, J. C.
- Nordby, H. P. See Marshall, M. S.
- Nordenson, J. W., Fincham's capsular theory of accommodation, III, 385.
- Nordheim, G., and Sporer, H., determination of chlorine vibrations in dichlorobenzenes from intensities and polarisations of their Raman lines, I, 218.
- Nordland, M., congenital haemolytic anaemia with splenectomy, III, 453.
- Nordt, E. See Schulz, G. V.
- Norman, A. G. See Fuller, H. W.
- Norman, D. P., and Johnson, W. W. A., spectrographic limit of identification of potassium, I, 162.
See also Johnson, W. W. A.

- Norman, H. B., tetanus in immunised subject, III, 923.
- Norris, C. H., physical properties of living matter, III, 425.
- Norris, E. R. See Benoit, G. J., jun.
- Norris, F. A., Rusoff, I. I., Miller, E. S., and Burr, G. O., fractional distillation of unsaturated fatty acids. II. Effect of heat on rearrangements produced in unsaturated fatty acid esters, II, 251.
- Norris, L. C. See Combs, G. F., Gillis, M. B., and McGinnis, J.
- Norris, M. See Chown, B.
- Norris, R., Raman effect and change of state : naphthalene, I, 143. Raman spectrum of sulphur under high dispersion, I, 144.
- Norris, R. F., and Rush, A., comparison of prothrombin levels in maternal and cord blood at delivery, III, 159.
- Norris, T. H., Ruben, S., and Allen, M. B., tracer studies with radioactive hydrogen ; experiments on photosynthesis and chlorophyll, III, 362.
- Norris, W. P. See Carter, H. E.
- North, E. A. See Anderson, G.
- North, V., and Wells, R. C., use of phosphate for separating cobalt from iron, I, 101.
- North, W. R., jun., staphylococcal enterotoxin in relation to α -haemolysin production in simple media, III, 606.
- Northey, E. H., Pierce, A. E., and Kertesz, D. J., sulphanilamide derivatives. VIII. Sulphanilylamidines, II, 128.
- Norton, H. M. See Post, H. W.
- Nosik, W. A., and Shannon, E. W., myotonia acquisita (Talma's disease), III, 635.
- Notkin, L. J., and Webster, D. R., effect of amidopyrine on intestinal motility, III, 909.
- Nottbaum, H., serological grouping of streptococci by precipitation, III, 147.
- Noun, L. J., chronic otorrhoea due to food sensitivity, III, 473.
- Nováček, R., secondary uranium minerals, I, 28.
- Novak, A. F., and Adams, S. L., determination of stability of thiamin, nicotinic acid, and riboflavin in whisky over a six-month period, III, 665.
- Novak, C. R. See Meazer, R.
- Novak, E., endocrine disturbances in adolescent females, III, 562. Physiology of endocrines in pregnancy, lactation, and puerperium, III, 738.
- Novak, M., sulphonamides in stored plasma, III, 83.
- and Lacy, A. M., determination of bacterial count on restaurant glassware, III, 206. Relative *in vitro* effects of sulphonamides on *Hæmophilus influenzae*, III, 211.
- See also Lacy, A. M.
- Novel, E. See Déruaz, G.
- Novelli, A., seasonal variations of gonadotropic action of hypophysis of *Bufo arenarum*, III, 812.
- Novelli, A. N., and Tainter, M. L., stimulant power of secondary and tertiary phenyl-isopropylamines, III, 677.
- Novelli, G. D., bacterial oxidation of hydrocarbons in marine sediments, III, 848.
- Noverraz, M. See Gigon, A.
- Novikoff, A. B., surface changes in fertilised eggs of *Nereis*, III, 79.
- Novikov, A. A., temperature determination with a photocell, I, 318.
- Novikov, V. A., withdrawal of water from the fruit by the leaves of cotton, III, 698.
- Novikova, V. A. See Pinsker, Z. G.
- Novitski, E. See Wiersma, C. A. G.
- Nowacki, W., relationship between $K[AlSiO_4]$ (low sphalerite), $Ba[Al_2O_4]$, $K[LiSO_4]$, $Na[AlSiO_4]$ (nepheline), and $[Si_2O_5]$ (β -tridymite), I, 106. Symmetry and physico-chemical properties of crystallised compounds. II. General structural principles of organic compounds, I, 194.
- Nowinski, W. W., ascorbic acid synthesis *in vitro* by the vitellus, III, 825.
- See also De Robertis, E.
- Noyes, R. M., and Dickinson, R. G., equilibrium of gaseous dibromoethylenes, I, 280.
- Noyes, W. A., jun. See Davis, W., jun.
- Noyons, E. C., and Polano, M. K., sources of error in photometric determination of cholesterol, III, 704.
- Nozaki, K., catalytic interchange of groups in aliphatic amines. I, I, 132.
- Nundenberg, W., and Butz, L. W., synthesis of condensed ring compounds. X. *cis*-1-Keto-9-methyl-4 α -octahydronaphthalene and *cis*-10-methyl-1-vinyl-4 β -naphthitadiene, II, 330.
- See also Kharasch, M. S.
- Nunzio, C. J., and Bargen, J. A., fat excretion in human bowel, III, 178.
- Nungester, W. J., and Kempf, A. H., "infection-prevention" test for evaluation of skin disinfectants, III, 266. Recently isolated strains of pneumococci as incitants of experimental pneumonia in rats, III, 690.
- Kempf, A. H., and Klepser, R. G., respiratory pattern as predisposing factor in aetiology of pneumonia, III, 64.
- See also Kempf, A. H., and Wheeler, A. H.
- Nunheimer, T. D., and Fabian, F. W., respiration of micrococci, III, 436.
- Nurse, R. W. See Parker, T. W.
- Nutini, L. G., and Kreke, C. W., toxic effect of splenic extracts on *Streptococcus haemolyticus*, III, 303.
- Nutt, A. L. See Cohn, W. E.
- Nutt, J. J., and Smith, E. E., total congenital absence of tibia, III, 2.
- Nutting, G. C. See Long, F. A.
- Nutting, M. D. F., effect of sheep anterior pituitary extract on rabbit ovaries and uterus, III, 26. Extrauterine pregnancy in rabbit, III, 542.
- Nutting, P. G., physical chemistry of a cooling planet, I, 214.
- Nuzum, F. R. See Dalton, J. W.
- Nye, D. See Bisgara, J. D.
- Nye, R. B., Semisch, C. W., and Merves, L., [treatment of] chronic meningococcaemia complicated by acute endocarditis, III, 417.
- Nyholm, R. S. See Dwyer, F. P.
- Nystrom, H. See Euler, H. von.
- Oak, L., Massachusetts vision test [school testing], III, 101.
- Oakeshott, S. H. See Goldblatt, M. W.
- Oakley, W. See Lawrence, R. D.
- Obel, A. L. See Jonsson, G.
- Ober, F. R., discoid cartilage, trigger knee, III, 297. Pain and tenderness in acute stages of poliomyelitis, III, 466.
- Oberman, E., phosphorus burns, III, 766.
- Obert, F. W. See Andrews, H. L.
- Obiditsch, R. A., growth of human pelvis from 10th to 20th year, III, 297. Maldevelopment of tricuspidal valves, III, 298.
- Obrador, S., effects of hypothalamic lesions on electrical activity of cerebral cortex, III, 796.
- O'Brien, C. S., and Allen, J. H., ocular changes in young diabetics, III, 580.
- O'Brien, J. P. See Butler, E. G.
- Ochoa, S., α -ketoglutaric dehydrogenase of heart extracts, III, 915.
- Ochsner, A., and DeBakey, M., peripheral vascular disease, III, 162. Surgical considerations in primary carcinoma of lung, III, 492.
- DeBakey, M., and Murray, S. D., absence of anterior mediastinum, III, 365.
- Longacre, A. B., and Murray, S. D., progressive lymphœdema associated with recurrent erysipeloïd infections, III, 463.
- See also Kepl, M., and Meade, W. H.
- Ockerblad, N. F., and Carlson, H. E., congenital hour-glass bladder, III, 541.
- See also Neff, F. C.
- O'Connell, D. C. See Irwin, D.
- O'Connell, J. J., and Penrose, L. S., tests of psychomotor efficiency in patients treated with metrazol, III, 234.
- O'Connell, R. A. See Lundgren, H. P.
- O'Connor, J. J., Pool, M. L., and Kurbatov, J. D., artificial radioactivity of ^{49}Cr , I, 79.
- O'Connor, J. M., oxygen consumption in relation to temperature and fatty acid composition in frog and earthworm, III, 130. Influence of fatty acids on oxygen consumption of tissues in relation to temperature and theory of temperature regulation, III, 130.
- O'Daniel, H., structure of 12-hetero-poly-compounds, I, 146.
- and Damaschke, A., structure of tetramethyl-hæmatoporphyrin C, I, 33.
- and Tscheischwili, L., structure of $\gamma\text{-Ca}_2\text{SiO}_4$ and Na_2BeF_4 , I, 33.
- Odell, A. G., bromide intoxication, III, 198.
- O'Dell, B. L., and Hogan, A. G., chick anaemia vitamin, III, 825.
- Odintsova, S. V., nitre formation in deserts, I, 105.
- Odiney, K. C., and Miller, C. E., ketone alcohols. II. Derivatives of polymerisation of pentan- γ -one, II, 152.
- O'Donnell, G. See Gilman, H.
- Odoriz, J. B., effect of "yerba mate" on encephalogram, III, 727. Effect of maté on electroencephalogram, III, 797.
- Oeckinghaus, E. See Lipp, M.
- Örstrom, A., state of combination of nitrogen in eggs of *Paracentrotus lividus* before and after fertilisation ; significance of state for osmotic pressure and metabolism, III, 504.
- Örtenblad, B., and Myrbäck, K., limit dextrans and starch. IV. Dextrans from maize starch, III, 682.
- Oesper, R. E., Otto Ruff, I, 168. Ludwig Gattermann, I, 187. Nicholas Leblanc, 1742-1806, I, 321.
- Oestreicher, A. See Fischer, Hans.
- Oetjen, R. A., Kao, C. L., and Randall, H. M., infra-red prism spectrograph as a precision instrument, I, 209.
- Oettingen, W. F. ton, toxicity and potential dangers of aliphatic and aromatic hydrocarbons, III, 592.
- Neal, P. A., and Donahue, D. D., toxicity of toluene, III, 139.
- Offutt, W. F. See Wallace, W. E.
- Ogden, E. See Burlingame, P., and Chance, J.
- Ogden, M. A., sickle-cell anaemia in white race, III, 454.
- Ogg, R. A., jun., and Williams, R. R., jun., inhibitory effect of iodine on photolysis of gaseous hydrogen iodide, I, 206.
- See also Blaedel, W. J.
- Ogilvie, D. D., suspected copper poisoning in pigs, III, 267.
- Ogle, K. N., association between aniseikonia and anomalous binocular space perception, III, 879.
- See also Burian, H. M.
- Ogston, A. G., periodic structure of proteins, II, 247.
- [with Weinstein, W. J.] ultracentrifugal examination, III, 441.
- See also Bawden, F. C.
- Ohle, H., and Hielscher, M., constitution of 1-phenyl-d-fructosone, II, 294. Preparation and cleavage of d-arabo-tetrahydroxybutylquinoxaline, II, 309.
- and Melkonian, G. A., benzoylation of erythritol and preparation of derivatives of O-benzoylglyceraldehyde, II, 350. Flavazole. I. 1-Phenyl-3-(d-erythrotri-hydroxypropyl)flavazole ; constitution of sidechain. II. Structure of ring system, II, 393, 394.
- Ohler, E. A., and Cummins, H., sexual differences in breadths of epidermal ridges in finger tips and palms, III, 365.
- Ohlmeyer, P., phosphatase of prostate a metal-protein complex, III, 143.
- Ohlson, M. A. See McKay, H.
- Ohmori, S., action of substances injected under pressure into renal pelvis, III, 566.

- O'Hollaren, P. See Lemere, F.
 Ohta, T. See Takeda, Y.
 Oka, S., theory of acoustic double refraction in colloidal solutions, I, 220.
 Okayama, T. See Sugasawa, S.
 Okey, R., gallstone formation and intake of B vitamins in cholesterol-fed guinea-pig, III, 486.
 Okkels, H., culture of whole organs, III, 300.
 Okrent, A. See Wachholder, K.
 Olbricht, T. M., chemical test for pregnancy in mare, III, 174.
 Olcott, C. T., and Dooley, S. W., agenesis of lung in infant, III, 858.
 See also Light, R. F.
 Oldenberg, O., and Morris, J. E., thermal hydrogen-oxygen reaction; measurements in large vessels, I, 230.
 Oldham, F. K. See Chen, G., Dearborn, E. H., and Kelsey, F. E.
 Oldham, H., Roberts, L. J., McLennan, K., and Schlutz, F. W., dark adaptation of children in relation to dietary levels of vitamin-A, III, 18.
 Olds, R. H., Lacey, W. N., Reamer, H. H., and Sage, B. H., phase equilibria in hydrocarbon systems; volumetric behaviour of methane, I, 274.
 Lacey, W. N., and Sage, B. H., phase equilibria in hydrocarbon systems; composition of dewpoint gas of methane-water system, I, 36.
 See also Reamer, H. H., and Sage, B. H.
 O'Leary, J. L., Smith, M. G., and Reames, H. R., influence of age on susceptibility of mice to St. Louis encephalitis virus and on distribution of lesions, III, 529.
 See also Schwartz, H. G.
 O'Leary, P. A., treatment of asymptomatic syphilis, III, 198. Vitamin therapy in dermatology and syphilology, III, 406.
 Oleinik, E. See Kligler, I. J.
 Oliphant, J. W., Powell, W. F., and Perrin, T. L., sulphadiazine in lymphogranuloma venereum ophthalmitis, III, 134.
 Olitsky, P. K., Morgan, I. M., and Schlesinger, R. W., induced resistance of central nervous system to experimental infection with equine encephalomyelitis virus; serotherapy in Western virus infection, III, 695.
 and Schlesinger, R. W., virus of spontaneous encephalomyelitis found in intestine of normal wild grey mice, III, 608.
 See also Morgan, I. M., and Schlesinger, R. W.
 Olitzki, L., and Koch, P. K., production of potent toxins by *Shigella dysenteriae* (Shiga) in a synthetic medium, III, 525.
 Ollayos, R. W., and Winkler, A. W., urinary excretion and serum concentration of inorganic phosphate in man, III, 655.
 See also Smith, P. K.
 Olliver, M., ascorbic acid values of fruits and vegetables for dietary surveys, III, 412.
 See also Harris, L. J.
 Oliver, F., kinetics of chemical reactions, I, 280. Reduction of ferric oxide by hydrogen, I, 283.
 See also Thomas, L. B.
 Olmsted, J. M. D. See Morgan, M. W.
 O'Loughlin, B. J. See Slutsky, B.
 Olsen, J. S. See Nichols, M. L.
 Olsen, N. S., Hemingway, A., and Nier, A. O., metabolism of glycine. I. Stable isotope of carbon, III, 669.
 Olsen, O. W., hexachloroethane for controlling common liver fluke, III, 910.
 Olsen, W. See Neuweit, F.
 Olshausen, K. W. See Warren, S.
 Olson, J. B., changes in body proportions produced in frog embryos by supranormal temperatures, III, 367.
 Olson, K. B., and Menzel, H., bleeding tendency in obstructive jaundice and correction by vitamin-K, III, 227.
 Olson, M., histology of molluscan muscle, III, 722.
 Olson, O. E., and Moxon, A. L., nitrate reduction in relation to oat hay poisoning, III, 129.
 See also Whitehead, E. I.
 Olson, T. M., and Dak, S., ruminal gases in normal and bloated animals, III, 483.
 Olson, W. H. See Necheles, H.
 Olson, W. T., and Spurr, R. A., glass laboratory pump for gases or liquids, I, 266.
 and Whitacre, F. M., stovaine analogues, II, 293.
 Olynyk, P., and Gordon, A. R., vapour pressure of aqueous sodium chloride at 20°, 25°, and 30° from 2 molal to saturation, I, 153.
 O'Malley, E., Conway, E. J., and Fitzgerald, O., micro-diffusion methods; blood-glucose, III, 715.
 See also Conway, E. J.
 O'Neal, R. D., and Scharff-Goldhaber, (Mrs.) G., investigation of X-radiation from ^{121}Te (125 days) by critical absorption and fluorescence, I, 45.
 O'Neil, G. C. See Maris, E. P., and Stokes, J., jun.
 Onslow, J. M. See Smillie, W. G.
 Oosthuizen, S. F. See Meyer, A. A.
 Oparin, A. I., and Sisakjan, N. M., A. N. Bach's scientific work, I, 168.
 Opdyke, D. F., response of fasted and non-fasted chicks to insulin, III, 24.
 Opie, E. L. See Canat, E. H.
 Oppel, T. W., excretion of biotin in human urine; relationship between the biotin content of diet and its output in urine and faeces; excretion of two biotin-like substances in urine, III, 411.
 Oppenheim, E., and Bruger, M., effect of high-fat test meal on blood-cholesterol in normal and obese individuals, III, 580.
 Oppenheim, M., and Cohen, D., acetarsone in treatment of pemphigus, III, 514.
 Oppenheimer, A., supernumerary ossicle at isthmus of neural arch, III, 78. Apophyseal intervertebral joints, III, 449.
 Oppenheimer, B. S. See Friedman, B.
 Oppenheimer, J. M., development of Mauthner's fibres in *Fundulus* embryos, III, 542.
 Oppenheimer, M. J., Glycer, N. M., and Hamilton, R. H., intestinal motility as influenced through extrinsic nerves as result of central stimulation by bulbocapnine, III, 343.
 Opper, L., and Hale, V., sulphaguanidine in dysentery carriers, III, 418.
 Opsahl, (Miss) J. C., and Arnow, L. E., optical configuration of glutamic acid isolated from casein hydrolysates by six procedures, II, 24.
 Orchin, M., [detection of] ethylene glycol, propylene glycol, glycerol, and diethylene glycol, II, 212.
 Ordal, E. J., Borg, A. F., and Wilson, J. L., action of wetting agents on micro-organisms. I. Effect of pH and wetting agents on germicidal action of phenolic compounds, III, 277.
 and Deromedi, F., action of wetting agents on micro-organisms. II. Synergistic effect of synthetic wetting agents on germicidal action of halogenated phenols, III, 762.
 O'Reilly, J. N., and Chapman, O. W., coarctation of aorta with cerebral aneurysms, III, 868.
 Orenstein, L. L., electrocardiograms in metrazol convulsions, III, 162.
 Orgain, E. S., and Poston, M. A., sulphonamides in bacterial endocarditis, III, 340.
 Organ, J. G. See Wokes, F.
 Organe, G., convulsions following percaine local anaesthesia, III, 267.
 Orrias, O. ~ Amuchastegui, S. R., Molina-Ahumada, J. B., and Piantoni, C.
 Orla-Jensen, S., dietetic value of products of sour milk, III, 899.
 Orlova, L. M., decomposition of ammonia complex of tervalent cobalt, I, 234.
 Ormerod, F. C., hearing, III, 473.
 Ormiston, G., Lewis, F. J. W., and Woodman, D., pneumonia in infants, children, and adults [bacteriology and treatment], III, 417.
 Ormiston, G., Taylor, Joan, and Wilson, G. S., enteritis associated with *Giardia lamblia*, III, 429.
 Ormsbee, R. A., growth and respiration of a ciliate, III, 686.
 Ormsby, A. A., direct colorimetric method for determination of urea in blood and urine, III, 296.
 Orr, J. H. See Reed, G. B.
 Orr, J. W. See Miller, E. W.
 Orr, M. D. See Fraser, D. T.
 Orr, T. G. See Warvi, W. N.
 Orsini, D., Waisman, H. A., and Elvehjem, C. A., effect of vitamin deficiencies on basal metabolism and respiratory quotient in rats, III, 407.
 Orten, J. M., and Sayers, G., comparison of disposition of injected glucose in two strains of rats, III, 47.
 Ortmayer, M. See Schindler, R.
 Osborn, E. F., system CaSiO_3 -diopside-anorthite, I, 74. Equilibrium studies on mixtures of pyroxenes, pyroxenoids, melilites, and olivines containing lime, magnesia, alumina, and silica, I, 242.
 Osborne, D. E. See Denstedt, O. F.
 Osborne, E. D. See Jordon, J. W.
 Osborne, S. L., Markson, D. E., Driscoll, R. E., and Merriman, J. R., treatment of arthritis by electropyrexia including physiological studies during fever therapy, III, 54.
 Osborne, W. See Chapman, O. D.
 Oser, B. L. See Hochberg, M., Melnick, D., and Siegel, L.
 Osgood, B. See Hoffman, W. S.
 Osgood, E. E., culture of human marrow, III, 710.
 Aebersold, P. C., Erf, L. A., and Packham, E. A., effects of million-volt Roentgen rays, 200-kilovolt Roentgen rays, radioactive phosphorus, and neutron rays by marrow culture technique, III, 54.
 Armentrout, J. M., Brownlee, I. E., Ellis, D. M., and Joski, J., comparative effectiveness of arsenical compounds and sulphonamide drugs against bacterial infections, III, 760.
 Osgood, H., blood pressure fluctuations in bronchial asthma, III, 718.
 Berkson, R. S., Hall, D. W., Kinal, M. E., and Lenzner, A. S., blood pressure fluctuations in respiratory obstruction, III, 92.
 See also Arbesman, C. E.
 Oshlag, J. A., and Eil, M., blood- and urinary chloride studies in sulphathiazole-treated pneumonias and early excretion of chloride in pneumonia, III, 48.
 Oshry, H. I., Ballard, J. W., and Schrenk, H. H., spectrochemical determination of silicon, iron, and aluminium in mineral powders with a high-voltage direct-current arc, I, 99.
 Osler, A. G. See Caspe, S.
 Osmun, P. M. See Fowler, E. P.
 Ospeck, A. G. See Roberts, M. E.
 Ossandon, M., grafts of cornea in rabbits, III, 640.
 Oster, G., and Kirkwood, J. G., influence of hindered molecular rotation on dielectric constants of water, alcohols, and other polar liquids, I, 193.
 Oster, K. A., and Soloway, S., oxidative destruction of pressor amines, III, 869.
 and Sorkin, S. Z., effects of intravenous injections of l-dopa on blood pressure, III, 343.
 Oster, R. H. See Toman, J. E. P.
 Osterberg, A. E. See Carryer, H. M., and Keith, N. M.
 Ostergard, R. P. See György, P.
 Osterhout, W. J. V., increased irritability in *Nitella* due to guanidine, III, 149. Diffusion potentials in models and living cells, III, 425. Pacemakers in *Nitella*. III. Electrical alternans, III, 596. Positive potentials due to aniline and antagonistic action of ammonia, III, 912.

- Osterman, E., and Rettger, L. F., comparative study of organisms of the Friedländer and *coli-aérogenes* groups. I. Morphological and cultural characteristics, with emphasis on variation. II. Pathogenicity, biochemical reactions, and serological relationships, III, 432.
- Osti, A. See Monti, L.
- Ostromov, E. A., and Bomschtein, R. I., precipitation of uranium with hydrogen sulphide in presence of hexamethylenetetramine, I, 237. Separation of metals of the third group from calcium, magnesium, and alkalis by means of hydrogen sulphide in presence of hexamethylenetetramine, I, 316.
- Ostwald, W., physico-chemical metastases, I, 36.
- O'Sullivan, J. V. See Brown, R. C.
- Oswald, E. J. See Landy, M., and Sadusk, J. F.
- Oswald, H. R. See Sumwalt, M.
- Otero, P. M. See under Morales-Otero, P.
- Othmer, D. F., correlating vapour pressure and latent heat data; use of critical constants, I, 9. Composition of vapours from boiling binary solutions, I, 227.
- Otis, A. B. See Allen, T. H.
- Otis, L. See Smith, M. C.
- Ott, G. L. See Deutsch, H. F.
- Ottenberg, R., sulphanilamide therapy [and its toxic effects], III, 136. Transfusion of leucocytic blood in treatment of leucopenic states, III, 547. and Spiegel, R., status of non-obstructive jaundice due to infectious and chemical agents, III, 566.
- Ottenweller, J. H., Holloway, C., jun., and Weinrich, W., liquid-vapour equilibrium compositions in hydrogen chloride-n-butane system, I, 128.
- Ottolina, C., vesicular test: diagnostic method of infection by poradenic (lymphogranuloma inguinale) virus, III, 609.
- Ouer, R. A. See Barrow, W. H.
- Oughterson, A. W. See Plant, J. A.
- Outhouse, J. See Breiter, H.
- Overbeck, W. See Muller, H. F.
- Overholser, L. G., and Yoe, J. H., colorimetric determination of cobalt with o-nitrosoresorcinol, I, 237.
- See also Yoe, J. H.
- Overholt, R. H., curability of primary carcinoma of lung, III, 185.
- Overman, R. See Drill, V. A.
- Overman, R. S., Baumann, C. A., Field, J. B., and Link, K. P., haemorrhagic sweet clover disease. IX. Effect of diet and vitamin-K on hypoprothrombinæmia induced by 3,3'-methylene-bis-(4-hydroxycoumarin) in the rat, III, 457.
- Link, K. P., and Stahmann, M. A., haemorrhagic sweet clover disease. VIII. Effect of 2-methyl-1:4-naphthaquinone and l-ascorbic acid on action of 3,3'-methylene-bis-(4-hydroxycoumarin) on prothrombin time of rabbits, III, 6.
- See also Baumann, C. A., Field, J. B., and Link, K. P.
- Owen, B. B., and Brinkley, S. R., jun., elimination of liquid junction potentials. IV. Conditions of extrapolation, I, 18. Effect of pressure on dielectric constants of liquids, I, 298.
- Owen, C. A. See Willumsen, H. C.
- Owen, C. R., bacteriology of perforation peritonitis, III, 432. See also Lyons, C.
- Owen, E. A., determination of equilibrium diagrams by X-ray methods. I, I, 202.
- Owen, E. C., Smith, J. A. B., and Wright, N. C., urea as partial protein substitute in feeding of dairy cattle, III, 404.
- Owen, J. C., device for calibrating small air pumps, I, 167.
- Owen, L. N., polymerisation of acetaldol, II, 352.
- and Simonsen, J. L., barbaloin, II, 115.
- Owen, P. S., Weissman, N., and Ferrebee, J. W., effect of haematin on stability of thiochrome in solutions of alkaline ferricyanide, III, 753.
- Owen, R. P. See Angus, W. R.
- Owen, W. F., jun., and Van Ordstrand, H. S., Weltmann serum coagulation reaction in pulmonary tuberculosis, III, 84.
- Owings, J. C., and Morgan, Z., solitary true diverticulum of cæcum, III, 449.
- Oxford, A. E., Raistrick, H., and Smith, G., anti-bacterial substances from moulds. VI. Puberulic acid, $C_8H_{14}O_4$, and puberulonic acid, $C_8H_{14}O_6$, metabolic products of a number of species of *Penicillium*, III, 59. See also Fieser, L. F.
- Oza, T. M., and Shah, M. S., action of charcoal on potassium nitrate. I. Effect of temperature, time, etc., I, 133. Thermal decomposition of potassium nitrite, I, 133.
- Ozansoy, M. See Arndt, F.
- Ozorio de Almeida, M., effects [on nervous function] of removal of skin in American frogs, III, 724. Investigation of epileptiform attacks produced by sudden cooling of frog spinal cord, III, 793.
- Moussatché, H., and Vianna Dias, M., epileptiform attacks produced by sudden cooling of spinal cord; latent period of attacks in *Leptodactylus ocellatus*, III, 382. Convulsive attack by freezing the spinal cord in frogs of different countries, III, 723.
- P.
- Paasch, E. See Gins, H. A.
- Pabst, A., re-examination of hibschite, I, 170. Mineralogy of metamorphosed serpentine at Humphreys, Fresno Co., California, I, 170. Crystal structure of gadolinium formate, $(HCO_3)_2Gd$, I, 177. Large and small garnets from Fort Wrangell, Alaska, I, 289.
- Pabst, M. L., and Cartland, G. F., elimination of injectio digitalis U.S.P. XII, III, 910.
- Pace, D. M. See Mast, S. O.
- Pace, N., and Main, R. J., effect of muscle extractives on perfused heart, III, 8.
- Pace, W. T. See Bergmann, W.
- Pack, G. T., and Wuester, W. O., development of cancer in acrodermatitis chronica atrophicans, III, 184. See also Abels, J. C.
- Packchanian, A., platinum scoop for transferring sterile powders, III, 447. Animal board for rabbits, monkeys, and other laboratory animals, III, 615.
- Packham, E. A. See Osgood, E. E.
- Pacsu, E. See Chadwick, A. F., and Mullen, J. W.
- Pader, M., recovery of solvents used in chemical determination of thiamin, III, 448.
- Padzow, K. H. See Quigley, J. P.
- Page, C. W., haemorrhage in early pregnancy, III, 326.
- Page, E. C., jun., and Whitwell, J. C., delivery of liquids at low and constant rates, I, 266.
- Page, E. W., response of human pregnant uterus to pitocin tannate in oil, III, 809.
- Page, I. H., arterial hypertension, III, 550. and Abell, R. G., state of vessels of mesentery in shock produced by constricting the limbs and following haemorrhage, III, 378. and Corcoran, A. C., explanting kidney for renal venipuncture in dogs, III, 398.
- Helmer, O. M., Kohlstaedt, K. G., Kempf, G. I., Corcoran, A. C., and Taylor, R. D., experimental treatment of hypertension with kidney extracts, III, 790. See also Abell, R. G., Corcoran, A. C., Kempf, C. F., Kohlstaedt, K. G., Plentl, A. A., Shrader, J. C., and Taylor, R. D.
- Page, J. E., and Robinson, F. A., polarographic studies. II. Mould metabolites and related quinones, III. Determination of vanadium, I, 155, 317. Relationship between bacteriostatic activity and normal reduction potentials of substituted quinones, III, 908.
- Page, J. E. See also Goodwin, L. G., and Lauchlan, A. D. E.
- Page, R. C., and Bercovitz, Z., prothrombin and fibrinogen studies in chronic ulcerative colitis, III, 227.
- Bercovitz, Z., and De Beer, E. J., comparative study of glucose and dextrin tolerance in patients with chronic ulcerative colitis, III, 193. Relation between prothrombin clotting time and plasma-fibrinogen concentration, III, 713. and De Beer, E. J., effect of storage at various temperatures on prothrombin clotting time of human plasma, III, 457. Interbatch variations of Russell viper venom, III, 766. Production of cysts following intramuscular injection of vegetable oils, III, 913.
- Page, T., continuous emission in spectra of planetary nebulae, I, 110.
- Pagel, R. W. See Fagin, I. D.
- Paget, H. A., gas-fired furnace for semi-micro-determination of carbon and hydrogen, II, 20.
- Pagniez, N. F. M. See Urquijo, C. A.
- Paige, B. H. See Cowen, D.
- Paige, M. F. C., acyl migration in the sterol series, II, 374.
- Pailor, M. See Spath, E.
- Paillard, H., and Briner, E., ozonisation of acetic acid and acetic anhydride, II, 215.
- Paillard, R., and Wyss-Chodat, F., cutaneous hypersensitivity to local anaesthetics of aniline group, III, 267.
- Paine, J. R. See Spink, W. W., and Watson, C. J.
- Painter, B. T., development of duck pituitary with reference to changes in pars buccalis, III, 298.
- Painter, J. H. See Drosdoff, M.
- Painter, T. S., and Taylor, A. N., nucleic acid storage in toad's egg, III, 26.
- Pakendorf, K., Kudrjaschov, B. A., and Lazareva, E. N., vitamin-K activity, III, 826.
- Pal, S. N., and Narasimham, M., the alkaloid in *Eclipta alba* (Hassk), II, 398.
- Palache, C., and Berman, H., bonlangerite, I, 170.
- Richmond, W. E., and Wolfe, C. W., amblygonite, I, 243.
- Palit, R. M. See Majumdar, S. K.
- Palit, S. R., solution of soaps in mixed solvents, I, 88. Physical chemistry of resin solutions. VII. Viscosity studies in mixed solvents with resins and cellulose derivatives. VIII. Viscosity of resins, cellulose derivatives, etc., in mixed solvents, I, 200.
- Palkin, S., and Hall, S. A., tilting arc flow divider suitable for reflux ratio control, I, 103. See also Hall, S. A.
- Palma Vicuna, S., eviscerated preparation, III, 75. Influence of incretin on glycaemia, III, 87. Influence of incretin and insulin on glycaemia in eviscerated preparation with liver present, III, 112.
- Palmer, A. H. See Levy, M.
- Palmer, B. See Boyd, E. M.
- Palmer, C. C. See Kakavas, J. C.
- Palmer, G. W., blast perforation of ear-drums, III, 879.
- Palmer, H. A., psycho-biological approach to acute anxiety attack, III, 234.
- Palmer, H. D., Scott, D. B. M., and Elliott, K. A. C., blood-guanidine level in migraine subjects, III, 638.
- Palmer, J. F., jun., absorption spectra of neodymium compounds, I, 175.
- Palmer, L. S. See Haydak, M. H., and Nelson, J. Wesley.
- Palmer, R. C. See Mittelmann, R.
- Palmer, W. L., Kirsner, J. B., and Rodaniche, E. C., lymphogranuloma infection of rectum, III, 146. See also Kirsner, J. B., and Rodaniche, E. C.
- Palmer, W. W. See Keston, A. S.
- Palmes, E. D. See Hyslop, F.
- Palmieri, S. See Monti, L.

- Palomaa, M. H.** [with Lehtimaki, S., and Valkola, A.J.] ether-like compounds. XXIV. Synthesis and reaction velocities of higher ether-acids, II, 351.
Pälsson, S. See Hedvall, J. A.
Pandit, M. G. See Kane, G. P.
Panditrao, D. B. See Joshi, K. G.
Pandya, K. C., and **Pandya, (Miss) R. B.**, condensation of malonanilic acid with aldehydes. V. With *o*- and *p*-chlorobenzaldehydes and *m*-bromobenzaldehyde; influence of the halogens, II, 162.
Pandya, (Miss) R. B. See Pandya, K. C.
Panikkar, N. K., osmotic regulation in *Chirocephalus*, III, 568.
Panizzi, L., heterocyclic syntheses. II. Dichloromethylsoxazoles and corresponding aldehydes, II, 143.
 See also Quilico, A.
Panofsky, W. K. H., **Green, A. E. S.**, and **Du Mond, J. W. M.**, precision determination of *h/e* by means of short-wave-length limit of continuous X-ray spectrum at 20 kv., I, 2.
Panov, E. M. See Levina, R. J.
Pantin, C. F. A., excitation of nematocysts, III, 658.
 See also Ross, D. M.
Pao, C. S. See Hughes, A. L.
Papa, D., Schwenk, E., and Whitman, B., reductions with nickel-aluminium alloy and aqueous alkali. I. Carbonyl group, II, 93.
Papadimitriou, I. See Zervas, L.
Papalambrou, P. See Helferich, B.
Papanicolaou, G. N., procedure for staining vaginal smears, III, 31.
Papapetrou, A., gravitational effects between polar-dipolar particles, I, 216.
 See also Honl, H.
Papazian, G. See Naves, Y. R.
Pappenheimer, A. M., and **Slanetz, C. A.**, generalised visceral disease of guinea-pigs, associated with intranuclear inclusions, III, 215.
 See also Bernheimer, A. W., Carnes, W. H., and Wolf, A.
Pappenheimer, J. R., and **Maes, J. P.**, vasomotor tone in hindlimb muscles of dog, III, 718.
Papper, E. M., and **Rovenstine, E. A.**, human plasma in spinal anaesthesia, III, 420.
Paquette, R. G., Lingafelter, E. C., and Tartar, H. V., sulphonates. VII. Conductances and densities of sodium alkylbenzene-*p*-sulphonate solutions, I, 199.
Paranjpe, K., Phalnikar, N. L., and Nargund, K. S., long-chain acyl- and alkyl-phenols, II, 128. Synthetic anthelmintics. IV. Synthesis of lactones similar to desmotroposantonin. VI. β -*p*-Anisyl- γ -alkylbutyrolactones, II, 131, 230.
Pardee, H. E. B., electrocardiograms with normal limb leads and abnormality of one of four precordial leads, III, 549.
Parekh, N. B., and **Shah, R. C.**, nitration of 5-hydroxy-4-methylcoumarin and 5-hydroxy-4-methylcoumarin-6-carboxylic acid and its methyl ester, II, 42. Aluminium chloride—reagent for the condensation of β -ketonic esters with phenols. VII. Condensation of 4-nitroresorcinol with ethyl acetoacetate, II, 43. Preparation of 4-nitroresorcinol, II, 227.
Pariser, H., transmissibility of syphilis, III, 775.
Park, R. G., and **Platts, W. M.** sulphonamide sunlight eruptions, III, 418.
Parker, E. E. See Billman, J. H.
Parker, E. R., and **Southwick, R. W.**, manganese deficiency in citrus, III, 538.
Parker, F. See Tenney, B.
Parker, H. M. See Buschke, F.
Parker, J. E., influence of thyro-active iodo-casein on growth of chicks, III, 806.
Parker, R. F. See Bronson, L. H.
Parker, R. R., Kohls, G. M., and Steinhaus, E. A., [vector of] Rocky Mountain spotted fever, III, 777.
Parker, T. W., and **Nurse, R. W.**, merwinite in system CaO-MgO-SiO₂, I, 188.
Parke, A. S., administration of non-steroid substances by implantation technique, III, 53. Rate of absorption of esters of oestrone and oestradiol as determined by feather tests, III, 888.
Parikhill, E. M. See Benedict, W. L.
Parkin, E. A., digestive enzymes of wood-boring beetles, III, 427.
Parkin, T. See Green, H. N.
Parkins, W. M. See Remington, J. W.
Parks, R. Q., **Hood, S. L.**, Hurwitz, C., and **Ellis, George H.**, chemical micro-determination of twelve elements in plant tissue, III, 927.
Parlow, A. See Bickel, A.
Parnas, J. K., co-enzymic reactions, III, 770.
Parodi, M., proper frequencies of halogen derivatives of normal saturated aliphatic hydrocarbons, I, 31.
Parr, L. W., and **Robbins, M. L.**, concept of [bacterial] stability and its implications, III, 209.
Parrack, H. O., potentials recorded from nerve trunk and dorsal root by micro-electrodes, III, 793.
Parrella, D., prostigmine in delayed menstruation, III, 590.
Parschikov, P. G. See Levina, R. J.
Parshad, R., propagation of supersonic waves in liquid mixtures and intermolecular forces. III. Ether and acetone in chloroform, I, 179.
Parson, A. L., iron electrode potential in a magnetic field, I, 63..
Parson-Smith, B., rehabilitation of heart patients, III, 867.
Parsonnet, A. E., and **Berstein, A.**, heart strain: development of physiological concept, III, 590.
Parsons, C. H. See Goldie, H.
Parsons, D. See Lepkovsky, S.
Parsons, E. I. See Frobisher, M., jun.
Parsons, L., and **Welch, C. E.**, curability of carcinoma of stomach, III, 332.
Parsons, R. J., and **Kidd, J. G.**, oral papillomatosis of rabbits; virus disease, III, 490.
Partington, J. R., early history of strontium, I, 73.
 See also Egan, (Miss) D. M., and Hart, A. B.
Partridge, M. W., particle size distribution of kaolin for internal administration, III, 512.
Partridge, R. C. See Solandt, D. Y., and Vassel, B.
Parts, A., effect of conductivity on determination of dipole moments, I, 26.
Pascal, J. I., parallactic angle in binocular depth perception, III, 19. Vertical ductions, III, 799.
Pascal, P., and **Coupar, C.**, polymerisation of acetylene to benzene, II, 149.
Paschkis, K. E., and **Cantarow, A.**, sugar content of blood, lymph, and artificial peritoneal fluid following injection of insulin, III, 559.
Cantarow, A., Herbut, P. A., and Rakoff, A. E., case of Cushing's syndrome with adrenal cortical hyperplasia, without pituitary basophilic adenoma or hyperplasia, III, 646.
 See also Cantarow, A., and Rakoff, A. E.
Pask, E. A., anaesthetic convulsions, III, 833.
Passalini, R. Q., and **Avogadro, A. C.**, diuretic action of pitressin after acute nephritis, III, 808.
Pass, G., demonstration of bacteria in sections by fluorescence microscopy, III, 144.
Passinski, A., Zolotareva, Z., and Muchina, A., exchange adsorption of neutral salts by proteins, I, 89.
Pastor, N. See Colton, N. H.
Pataki, J. See Plattner, P. A.
Patankar, V. S. See Tawde, N. R.
Patch, E. M., relation of diet to lenticular changes in larvæ of *Amblystoma tigrinum*, III, 470.
Patch, J. A. See Holmes, A. D.
Patel, B. D., and **Bokil, K. V.**, addition of phenol ethers to substituted cinnamic acids, II, 229.
Páter, J., use of aluminium caps instead of cotton-wool plugs in bacteriological work III, 144.
Paterson, E., and **Thompson, M. V.**, effect of vitamin-B on the growth of fibroblasts, III, 901.
Paterson, J. D. See Stableforth, A. W.
Paterson, J. H., intravenous sucrose and cerebrospinal fluid pressure, III, 798.
Paterson, J. T., prognostic blood tests in tuberculosis, III, 548.
Paterson, O. L. See Goodwin, R. A., jun.
Paterson, W. J. See Smits, B. L.
Paton, J. M. See Barkas, W. W.
Patrikeev, V. V. See Balandin, A. A.
Patt, H. M., and **Luckhardt, A. B.**, relation of low blood-calcium to parathyroid secretion, III, 22.
Patterson, A. L., and **Tunell, G.**, summation of Fourier series used in X-ray analysis of crystal structures, I, 177.
Patterson, E. L., myology of *Rhinopithecus roxellanae* and *Cynopithecus niger*, III, 1.
Patterson, E. M., xenolithic minor intrusion at Slievenaggriddle, Co. Down, I, 289.
Patterson, G. H. See Morton, A. A.
Patterson, H. S. See Kitto, P. H.
Patterson, J. M. See Anderson, A. F.
Patterson, J. M., **McHenry, E. W.**, and **Crandall, W. A.**, physiological properties of vitamin-A. I. Specific effect on body weight and body composition in rats, III, 41.
 See also Gavin, G.
Patterson, T. L., and **Sandweiss, D. J.**, relationship between gastro-duodenal motility phases and symptoms associated with duodenal ulcer in man, III, 177.
Patterson, W. B., congenital factors in thyroid disease, III, 320.
Patterson, W. H. See Jennings, P. A.
Pattison, I. H., and **McDiarmid, A.**, differences in cellular elements of blood obtained from right and left ventricles, III, 453.
 See also Holman, H. H.
Pattie, R. E. See Holbourn, A. H. S., and Weddell, G.
Patton, E. F. See Frank, W. P.
Patton, H. See Starr, P.
Patton, I. J., unilateral pyelonephritis and hypertension, III, 870.
Patton, M. B. See McKay, H.
Patty, F. A. See Sayers, R. R.
Paul, J. T. See Limarzi, L. R.
Paul, W. See Kopfermann, H.
Paul, W. D. See Salit, P. W.
Pauli, W., and **Dessauer, P.**, chemistry of colloid-colloid reactions. IX. Pure hydrophobic colloids and proteins, their protection mechanism, I, 90.
 and **Kusaka, S.**, theory of a mixed pseudoscalar and a vector meson field, I, 247.
Pauling, L., **Brown, D. H.**, and **Pressman, D.**, serological properties of simple substances. IV. Hapten inhibition of precipitation of antibodies and polyhaptenic simple substances, III, 442.
Campbell, D. H., **Ikawa, M.**, **Ikeda, C.**, and **Pressman, D.**, serological properties of simple substances. I. Precipitation reactions between antibodies and substances containing two or more haptenic groups, II, 177, 442.
Campbell, D. H., **Ikeda, C.**, and **Pressman, D.**, serological properties of simple substances. II. Effects of changed conditions and of added haptens on precipitation reactions of polyhaptenic simple substances, III, 442.
Ikeda, C., and **Pressman, D.**, serological properties of simple substances. III. Composition of precipitates of antibodies and polyhaptenic simple substances; valency of antibodies, III, 442.
 See also Gordy, W., and Pressman, D.
Paulley, L. W., sulphonamides in bacillary dysentery, III, 508.

- Pauls, F., and Drury, D. R.**, effect of insulin on glycogen storage in diabetic rat, III, 131. Rate of glucose absorption from intestine of diabetic rats, III, 744.
- Paulson, M.**, gastroscopy in diagnosis of gastric disease, III, 892.
- and Wyler, C. I., hepatic function in gastro-enteric malignancy; bromsulphalein, hippuric acid, and Van den Bergh reaction in detecting hepatic metastasis, III, 178.
- Paulson, M. C.** See Tarbell, D. S.
- Pavcek, P. L., and Shull, G. M.**, inactivation of biotin by rancid fats, III, 256. See also Griffith, W. H.
- Payne, B. F.**, evaluation of glaucoma operations, III, 311.
- Payne, F.**, cytology of anterior pituitary of broody fowls, III, 708.
- Payne, M. A., and Meyer, R. K.**, endocrine function of ovarian tissue after growth or storage *in vitro*, III, 324.
- Payne, W. W.** See Booth, R. G.
- Payne-Gaposchkin, (Miss) C., and Gaposchkin, S.**, material ejected from novæ, I, 78. Dimensions and constitution of variable stars, I, 79.
- Peacock, G.** See Brown, R. A.
- Peacock, M. A.**, goethite and lepidocrocite, I, 108. Diffuse diffraction and disorder in maucherite, I, 243. Sternbergite and frieseite, I, 243.
- Peacock, P. R., and Beck, S.**, multiple mesenteric sarcomata in rats following ingestion of heated lard, III, 896.
- Peacock, W.** See Reiner, L.
- Peak, D. A., and Short, W. F.**, interconversion of hexoestrol and isohexoestrol [dimethyl ethers], II, 227.
- Peale, A. R., and Lucchesi, P. F.**, cardiac muscle in poliomyleitis, III, 789.
- and Smith, L. W., unique cell rest in uterine fibroid, III, 572.
- Pearce, A. E., and Terzian, L. A.**, sodium pentothal anaesthesia for abdominal surgery in experimental animals, III, 138.
- Pearce, D. W.** See Russell, R. G.
- Pearce, J., and Dagradis, A.**, acute ulceration of oesophagus with associated intranuclear inclusion bodies, III, 813.
- Pearce, J. M.**, susceptibility of heart of rabbit to specific infection in viral diseases, III, 69.
- Pearce, L.** See Casey, A. E.
- Pearce, S. J.** See Sayers, R. R.
- Pearl, I. A.**, determination of iodides in urine, III, 567.
- Pearlman, W. H., and Pincus, G.**, metabolism of oestrone in men, III, 648. See also Pincus, G.
- Pearse, H. L.**, effect of nutrition and phyto-hormones on rooting of vine cuttings, III, 701.
- Pearson, A. A.**, development of olfactory nerve, nervus terminalis, and vomeronasal nerve in man, III, 21. Sensory type neurons in hypoglossal nerve, III, 636. Development of trochlear nerve in human foetus, III, 858.
- Pearson, B., Stasney, J., and Pizzolato, P.**, gastrointestinal involvement in lymphatic leukaemia, III, 373.
- Pearson, E. A.**, heterotopic endometriosis, III, 888.
- Pearson, G. H. J.**, psychological aspects of inflammatory skin lesions, III, 99.
- Pearson, H. E.**, infection and immunity in mouse catarrh, III, 69.
- Pearson, J. E. G.**, acute disseminated lupus erythematosus: recovery after sulphanilamide, III, 509. See also Doniach, I.
- Pearson, O. P., and Enders, R. K.**, ovulation, maturation, and fertilisation in fox, III, 298. See also Enders, R. K.
- Pearson, P. B.**, pantothenic acid content of pollen, III, 335.
- Pearson, R., and Evans, W. V.**, electrolysis of Grignard reagents; short-lived free radicals in ethyl ether, II, 49. See also Evans, W. V.
- Pearson, R. M., and Smith, J. A. B.**, utilisation of urea in the bovine rumen. I. Methods of analysis of the rumen ingesta and preliminary experiments *in vivo*. II. Conversion of urea into ammonia. III. Synthesis and breakdown of protein in rumen ingesta, III, 495.
- Pearson, R. W.** See Rogers, H. T.
- Pease, R. N.** See Robertson, N. C.
- Peck, E. F.**, castor seed poisoning in camel, III, 268.
- Peck, F. B.**, insulin content of extemporaneous mixtures of insulin and protamine zinc insulin, III, 645.
- Peck, R. E.** See Muller, N. W.
- Peck, R. L.** See Stokes, J. L.
- Peck, V. G.** See Heidenreich, R. D.
- Pecora, L. J.** See Talbott, J. H.
- Pecora, W. T., and Fisher, B.**, miarolitic pegmatites in monzonite, Beaver Creek stock, Bearpaw mountains, Montana, I, 241. and Hobbs, S. W., geology of nickel silicate deposit near Riddle, Oregon, I, 242.
- Pecorone, R. A.**, motility of human uterus, III, 810.
- Peczenik, O.**, induction of pregnancy in golden hamster during breeding pause, III, 28. Actions of sex hormones on oestrous cycle and reproduction in golden hamster, III, 30.
- Peddie, W.**, development of trichromatic theory of colour vision, III, 18, 733. Representation of intensity, hue, saturation, and magnitude of resultant vector on trichromatic theory, III, 733.
- Peece, R. P., and Weatherby, E. J.**, influence of ascorbic acid on the gonadotropic hormone content of male rat pituitary gland, III, 561.
- Peel, E. W., Clark, R. H., and Wagner, E. C.**, semimicro-determination of chlorine, bromine, and iodine in organic compounds, II, 116.
- Peel, R. F.** See Tomkeeff, S. I.
- Peelle, T. L.**, cytoarchitecture of individual parietal areas in *Macaca mulatta* and distribution of efferent fibres, III, 637.
- Peers, J. H.**, equine encephalomylitis (Western) in man—a histologic and anatomic study, III, 440.
- Peet, M. M.** See Foa, P. P.
- Peierls, R.** See Hepner, W.
- Peizer, L. R.**, identification of gonococcus from cultures and effect of animal sera on fermentations of gonococcus, III, 282. and Steffen, G. L., transportation of material from gonococcal infections, III, 920.
- Pelczar, M. J., jun., and Black, L. A.**, implantation of oral and intestinal strains of *Lactobacillus acidophilus* in the albino rat, III, 211. and Porter, J. R., determination of pantothenic acid in normal blood and urine by microbiological technique, III, 577.
- Peller, S.**, relation of cancer to pregnancy, delivery, and marital and social status. I. Cancer of breast and genital organs. II. Cancer of organs other than those of reproduction and total mortality, III, 332. Malignant tumours in persons with cirrhosis of liver, III, 898.
- Pelner, L.**, iodine allergy, III, 71. Parotid duct obstruction without calculus; suggestion for treatment, III, 244. Effect of ascorbic acid on sensitivity to salicylates in rheumatic fever, III, 423.
- and Aibel, M. E., treatment of severe periodic headaches with "desensitising" doses of prostigmine, III, 137.
- and Saskin, E., toxic amaurosis due to quinine, III, 385.
- Pemberton, J. de J.** See Bargen, J. A.
- Pemberton, R.** See Scull, C. W.
- Pembroke, R. H.** See Kenney, E. L.
- Pendse, G. S.**, rare congenital ocular abnormality, III, 876.
- Penzdich, A.** See Mahl, H.
- Penfold, A. R., Morrison, F. R., and Smith-White, S.**, occurrence of two physiological forms of *Leptospermum citratum* (Challinor, Cheel, and Penfold) as determined by chemical analysis of the essential oils, III, 219.
- Peng, H. W.** See Fuchs, K.
- Pennelli, S.**, platelet-red cell conjugation phenomenon and its relation to blood coagulation, III, 458.
- Penner, A., and Bernheim, A. I.**, pathogenesis of experimental dysentery intoxication, III, 63. Compensatory mechanisms in heart failure, III, 549.
- and Druckerman, L. J., segmental spasms of oesophagus and their relation to Parkinsonism, III, 123.
- Penney, J. R., and Zilva, S. S.**, determination of 2,3-diketo-l-gulonic acid, III, 448. Chemical behaviour of dehydro-l-ascorbic acid *in vitro* and *in vivo*, III, 826.
- Pennington, D.**, purines as growth requirements of *Spirillum serpens*, III, 285. See also Taylor, A.
- Pennington, M.** See Youmans, W. B.
- Penquite, R., Heller, V. G., and Thompson, R. B.**, cause and prevention of perosis, III, 501.
- Penrose, L. S.** See O'Connell, J. J.
- Pentelow, F. T. K.**, relation of food consumption to growth in fishes, III, 186.
- Penthal, C. J., and Rolfsen, F. B.**, dual alternating current titrometer, I, 239.
- People's League of Health**, nutrition of expectant and nursing mothers, III, 251.
- Pepkowitz, L. P.**, stability of carotene in acetone and petroleum ether extracts of green vegetables. I. Photochemical destruction of carotene in presence of chlorophyll. II. Stabilising effect of sodium cyanide, III, 855.
- Prince, A. L., and Bear, F. E.**, Kjeldahl digestion method using perchloric acid, I, 99.
- and Shive, J. W., Kjeldahl nitrogen determination; wet-digestion method, I, 99.
- Peppard, T. A.** See Hagen, W. S.
- Pepple, A.** See Fowlkes, R. W.
- Peppler, H. J.**, bacteriological comparison between synthetic and natural glycerol, III, 431.
- and Frazier, W. C., influence of film yeast, *Candida krusei*, on heat-resistance of lactic acid bacteria grown in symbiosis with it, III, 58.
- Percival, E. E.** See Buchanan, J.
- Percival, E. G. V., and Granichstadt, H.**, lichenin, II, 25.
- and Thomson, T. G. H., agar-agar. IV, II, 56. See also Buchanan, J., Cottrell, T. L., and Granichstadt, H.
- Percival, G. H.**, remedy for scabies, III, 419. Economy in fats and oils in dermatotherapy, III, 515.
- Percival, G. P.**, mirror used to show spot plate tests, I, 238.
- Percival, R. C.** See Benson, R. C. S.
- Perdue, J. R.**, use of nicotinamide as adjunct in obstetrical analgesia, III, 587.
- Pereodziński, A. A.**, relationship between regeneration and tumour growth, III, 155. Development of skin derivatives in vertebrates [action of carcinogens], III, 450.
- Pereira, J. jun.** See Galvao, P. E.
- Pereira, R. S.**, photometric determination of iron in blood, III, 711.
- Perera, G. A., and Berliner, R. W.**, relation of postural haemodilution to paroxysmal dyspnoea, III, 307.
- Perez, H. V. Z.**, chromaffin cells of nerve ganglia of *Hirudo medicinalis*, III, 300.
- Perez-Carral**. See under Guerra, F.
- Perkin, H. J., and Cattell, R. B.**, value of blood-iodine estimations in diagnosis of borderline hyperthyroidism, III, 557. See also Cattell, R. B.
- Perkins, J.** See Fincke, M. L.

- Perkins, J. E. See Dublin, T. D.
 Perkins, J. J., Barcroft-Warburg manometric apparatus, III, 363.
 Perkins, M. E. See Cohen, B.
 Perkins, R. M. See Vaughan, W. T.
 Perletz, P. See Hurd, C. F.
 Perley, A. M. See Barnett, H. L.
 Perlitz, H., lattice constants, atomic radii, and valency electron concentration, I, 117.
 and Westgren, A., crystal structure of $\text{Al}_5\text{Si}_6\text{Mg}_3\text{Fe}$, I, 145.
 Perlman, E., Bullowa, J. G. M., and Goodkind, R., immunological and electrophoretic comparison of the antibody to *C* polysaccharide and *C*-reactive protein of acute phase serum, III, 356.
 Perlman, H. B., lesions of conduction apparatus [ear], III, 642.
 See also Kobrak, H. G.
 Perlman, H. H., Dannenberg, A. M., and Sokoloff, N., excretion of nicotine in milk and urine, III, 592.
 Perlman, I. See Taurog, A.
 Perlmann, G. E. See Lipmann, F.
 Perlmutter, M. See Meyer, L. M.
 Perloff, W. H., influence of testosterone propionate on size of uterine fibroids in women, III, 122.
 Perlov, S., and Barth, E. E., primary thrombosis of axillary and brachial veins, III, 94.
 See also Katz, L. N.
 Perlzweig, W. A. See Klein, J. R., and Sarett, H. P.
 Pernokis, E. W., indications for splenectomy, III, 86.
 Perren, R. See Guyer, A.
 Perret, A., and Riethmann, J., cyanide-cyanamide equilibrium in case of lithium, I, 232.
 Perret, G. See Davis, L.
 Perrey-Fehrenbach, H. See Schopf, C.
 Perrigard, G. E., duplication of uterus and vagina, III, 78.
 Perrin, T. G., stain for *Treponema pallidum*, III, 709.
 Perrin, T. L. See Oliphant, J. W.
 Perritt, R. A., corneal transplantation, III, 876.
 Perrotet, E. See Naves, Y. R.
 Perry, C. A. See Cook, A. H., and Hajna, A. A.
 Perry, J. S., reproduction in water-vole, III, 738.
 Perry, K. M. A. See Evans, H.
 Persky, A. See Sloane, P.
 Peshkin, M. M., Rapaport, H. G., Messer, W., Feuer, I., Sicular, A., and Berger, A., histaminase in treatment of allergy in children, III, 926.
 Peskin, J. C., regeneration of visual purple in living animal, III, 105.
 Pestemer, M., conjugation of chromophores and constitution of organic compounds, I, 296.
 Petch, N. J., positions of carbon atoms in martensite, I, 117, 272.
 Peter, S. See Braune, H.
 Peterfy, R. A. See Weyrauch, H. M., jun.
 Peterman, M. G., treatment of communicating hydrocephalus, III, 874.
 Petermann, M. L., and Hakala, N. V., molecular kinetic and electrophoretic studies on carbonic anhydrase, I, 36.
 Peters, A. T., and Rowe, F. M., derivatives of o-3'-acenaphthoylbenzoic acid, II, 165.
 Rowe, F. M., and Stead, D. M., derivatives of 1:2:4:5-tetrachlorobenzene. I. Nitro- and amino-compounds. II. *N*-Nitro-amino-compounds, II, 226, 323.
 See also Bromby, N. G., and Harrison, W. S. W.
 Peters, C. F. See Snyder, H. R.
 Peters, F. See Busing, K. H.
 Peters, H. See Kemp, A. R.
 Peters, H. R., anuria following haemolytic reaction to blood transfusion; recovery following splanchnic block, III, 83.
 Peters, J. H., determination of creatinine and creatine in blood and urine with photo-electric colorimeter, III, 220.
 Peters, J. P., serum-proteins in health and disease, III, 865.
 See also Man, E. B.
 Peters, J. T., epicellular and pericellular depositions of amyloid as starting point of amyloidosis, III, 817.
 Peters, L. See Wright, H. N.
 Peters, R. A., Chick, H., Coward, K. H., Harris, L. J., Platt, B. S., and Macrae, T. F., vitamin-B₁ content of National flour and bread; thiochrome method for determination of vitamin-B₁, III, 824.
 Peters, S. B., progesterone in treatment of habitual abortion, III, 393.
 Petersen, F., symposium on asthma. II. Surgical considerations, III, 95.
 Petersen, J. W., Hedberg, K. W., and Christensen, B. E., micro-determination of hydroxyl content of organic compounds, acetic anhydride-pyridine mixture as reagent, II, 180.
 Petersen, M., and Tucker, C. W., X-ray line broadening by cold-working α -brass, I, 250.
 Petersen, W. E., and Shaw, J. C., oxygen uptake and carbon dioxide elimination of bovine mammary gland, III, 503.
 See also Knodi, C. B., and Shaw, J. C.
 Peterson, C. See Miller, C. D.
 Peterson, F. C. See Davis, W. E.
 Peterson, J. See Hardy, A. V.
 Peterson, O. L., and Finland, M., effect of food and alkali on absorption and excretion of sulphonamide drugs after oral and duodenal administration, III, 262.
 See also Finland, M.
 Peterson, R. E., essential factors for growth of ciliate protozoan *Colpidium campylum*, III, 353.
 Peterson, R. W., and Walton, J. H., autoxidation of ascorbic acid, I, 259.
 Peterson, S. See Svirbely, W. J.
 Peterson, V. E., geology and ore deposits of the Ashbrook silver mining district, Utah, I, 169.
 Peterson, W. H. See Bohonos, N., Fontaine, F. E., Hutchings, B. L., Lampen, J. O., McDaniel, L. E., McIntire, F. C., Nielsen, E., Underkofer, L. A., and Van Lanen, J. M.
 Petherick, M. H., natural resistance. I. Relative resistance of guinea-pigs and mice to diphtheria toxin, III, 282.
 Petin, N. N., and Toptschieva, K. V., equilibrium and surface phenomena in the system phenol-sodium oleate-water, III, I, 180.
 See also Golubkova, K. M.
 Petit, J. V., and Schleicher, E. M., "atypical" Gaucher's disease, III, 714.
 Petitpiere, C., effect of section of one phrenic on contralateral phrenic nerve and respiration, III, 721.
 Petrauskas, A. A., Van Atta, L. C., and Myers, F. E., measurements on X-ray production and absorption in the range 0.7-2.5 MeV., I, 245.
 Petriakov, I. V., Tichomirov, M. V., and Tunitzki, N. N., effect of surface-active substances on formation and coagulation of aerosols, I, 152.
 Petrie, A. H. K. See Wood, J. G.
 Petrie, G. F., and Steabden, D., identification of clostridia of gas gangrene, III, 524.
 Petro, J., sulphonamide resistance in gonorrhoea, III, 759.
 Petronici, (*Signa*) C. See Ajello, T.
 Petrov, D. A., application of method of conodes to drawing of univariant curves in systems of eutectic mixtures of three and four components forming solid solutions, I, 181.
 Petrov, V. F., two-colour prism or screen for observing colorimetric test-tubes, I, 238.
 Petrovani, G., variants of *Bact. coli* and their relation to "transmissible lysis" of J. Bordet, III, 145.
 Petrovskaja, N. V., morphology and structure of "new" gold, I, 106. Sulvanite from Lebedinoye gold ore deposit (Aldan), I, 106.
 Petrow, V. A., synthesis of heterocyclic compounds. I. 2:3-Dialkylquinolines, II, 71.
 Petrow, V. A., Rosenheim, O., and Starling, W. W., acyl migration in steroids II, 166.
 Stack, M. V., and Wragg, W. R., synthesis of heterocyclic compounds. II. 2-Phenyl-3:4:6:7-dibenzo-1:5-naphthyridine, II, 310.
 Pett, L. B. See Waagen, H. K.
 Pettkó, E. See Kocsis, E. A.
 Peyer, J. See Stoll, A.
 Peyronel, G., co-ordinate sexavalency in ammines of cupric halides, I, 33. Peroxytitanyl fluorides; structure of $(\text{NH}_4)_3\text{TiO}_2\text{F}_5$, I, 83. Zirconium arsenates. I. Existence of arsenates $\text{ZrO}_2\text{As}_2\text{O}_5\text{H}_2\text{O}$ and $\text{ZrO}(\text{AsO}_3)_2$; II. Thermal decomposition of $\text{ZrO}(\text{AsO}_3)_2$; existence of $(\text{ZrO})_2\text{As}_2\text{O}_5$, and $(\text{ZrO})_3(\text{AsO}_4)_2$, I, 135. Zirconium vanadates. I. Existence and structure of pyrovanadate, ZrV_2O_7 , I, 135.
 Peysier, A., symptoms of otosclerosis in outer and middle ear, III, 473. Anti-insulin effect of deoxycorticosterone acetate, III, 646.
 Peyton, W. T., [surgical] relief of intractable pain, III, 466.
 Pfaff, R. A., and Williams, W. L., use of benzidine method on thick specimens, III, 158.
 Pfankuch, E., turbidity of suspensions of virus-proteins with varying acidity, III, 768. Cleavage of protein of tobacco mosaic virus, III, 852.
 Kausche, G. A., and Stubbe, H., biological and physical-chemical characterisation of X- and γ -ray-induced mutations of tobacco mosaic virus proteins, III, 696.
 Pfannstiel, K., and Janecke, J., preparation of o-hydrazinobenzoic acids and indazolones by reduction of diazotised anthranilic acids by sulphurous acid, II, 132.
 Pfeiffer, H. See Bohme, H.
 Pfeiffer, C., Dreisbach, R. H., Roby, C. C., and Glass, H. G., aetiology of migraine syndrome, III, 874.
 See also Dreisbach, R. H.
 Pfeiffer, C. A., interstitial cell stimulation and luteinisation under influence of male and female hypophyses, III, 240.
 and Hooker, C. W., source of ovarian androgen in mouse, III, 29. Early and late effects of daily treatment with pregnant mare serum on ovary of mice of A strain, III, 393.
 and Kirschbaum, A., relation of interstitial cell hyperplasia to secretion of male hormone in sparrow, III, 651.
 See also Hooker, C. W.
 Pfeiffer, H. H., streaming double refraction and double diffraction of herapathite suspensions, I, 304. Dependence of double refraction of protoplasmic leptones on their orientation by centrifuging, III, 348.
 Pfeiffer, P., and Christlein, W., reduction of tetramethylhaematoxyline, II, 15.
 and Epler, H., brasiliin and haematoxylin. XVII. Synthesis of μ -aminochromindane, II, 334.
 and Krebs, H., stereochemistry of inner complex copper salts, II, 369.
 Pfäster, K., 3rd. See Huntress, E. H.
 Pfäster, K. H. T. See Huntress, E. H.
 Flugmacher, A. See Schwarz, R.
 Pfützer, G., and Roth, H., phosphatide content of plants in relation to mineral nutrition, III, 292.
 Phaff, H. J. See Mrak, E. M.
 Hair, J. J., diphtheria immunisation: interpretation of Schick test, III, 281.
 Smith, D. G., and Root, C. M., use of chicken serum in species and type identification of *Neisseria*, III, 848.
 Phalnikar, N. L., dipole moment and molecular structure. III. Dipole moments of diethyl esters of substituted malonic acids, I, 116.
 and Bhade, B. V., heat-polymerisation of triglycerides. I. Tristearin and triolein, II, 216.
 See also Gokhale, S. D., Paranjape, K., Sathe, N. V., and Walvekar, S. P.
 Phelps, E. B. See Buchbinder, L.

- Pheemister, D. B., conservative surgery in treatment of bone tumours, III, 185.
- Pheemister, J., and MacGregor, A. G., datolite and other minerals in a contact-altered limestone at Chapel quarry, near Kirkcaldy, Fife, I, 107.
- Philip, U., analysis of chromosomal polymorphism in two species of *Chironomus*, III, 224.
- Philippoff, W., effect of aggregation (micelle formation) on viscosity, I, 152.
- Phillips, C., multiple skin cancer [in Texas], III, 572.
- Phillips, F. J., Adams, W. E., and Hrdina, L. S., physiological adjustment in sublethal reduction of lung capacity in dog, III, 792.
- Phillips, H. See Balfe, M. P.
- Phillips, J. G., microphotometry of solar lines, $\lambda\lambda$ 3530—3915 Å, I, 109.
See also Roach, F. E.
- Phillips, J. H., Wallingford, V. H., and Butler, A. Q., determination of mandelic acid in urine, III, 894.
- Phillips, M. See Weihe, H. D.
- Phillips, P. H., Lundquist, N. S., and Boyer, P. D., effect of vitamin-A and members of B-complex on calf scours, III, 187.
See also Boyer, P. D., Lardy, H. A., Lundquist, N. S., and Shaw, J. H.
- Phillips, R. A., determination of blue dye T-1824 in plasma, III, 787.
- Phillips, R. B. See Sahler, S. L.
- Phillips, R. F., and Pitt, B. M., xanthhydrol as a reagent for characterisation of primary amides, II, 334.
See also Adams, R.
- Phillips, R. H., and Zeller, J. H., sexual development in small and large types of swine, III, 647.
- Phillipson, A. See Barcroft, J.
- Phillips, E., and Mason, T. G., foliar hydration of cotton plant. III. Observations using pruning method. IV. Influence of composition and concentration of nutrient solution, III, 697.
- Philpot, F. J., and Pirie, A., riboflavin and riboflavin adenine dinucleotide in ox ocular tissue, III, 729.
- Philpot, J. St. L., examination in the ultracentrifuge, III, 924.
- Philps, S., traumatic œdema of macula, III, 733.
- Phipps, T. E., periodic deviation from the Schottky line, II, I, 110.
- Piantoni, C., and Orias, O., action of deoxy-corticosterone on renal chloride clearance, III, 816.
- Piatt, J., transplantation of aneurogenic fore-limbs in *Ambystoma punctatum*, III, 450.
- Piazolo, G. See Freudenberg, K., and Lautsch, W.
- Picard, R. G., and Duffendack, O. S., studies on structure of thin metallic films by electron microscope, I, 272.
- Pichard, R. See Luco, J. V.
- Pichler, M. See Weber, K.
- Pick, E. P., pharmacology and toxicology of sulphonamides, III, 906.
and Glaubach, S., influence of protein metabolism on distribution of nitrogen compounds in liver, III, 579.
- Pickels, J. See Sheehan, D.
- Pickles, E. G., ultracentrifuge cell, I, 72.
Sedimentation in angle centrifuge, I, 126.
See also Friedewald, W. F.
- Picken, L. E. R. See Ackroyd, S.
- Pickering, G. W., circulation in arterial hypertension, III, 869.
- Pickering, W. H., improved cosmic-ray radio sonde, I, 265.
See also Millikan, R. A.
- Pickett, L. W., infra-red spectrum of furan, I, 30.
See also Carr, E. P.
- Pickett, T. A., and Cowart, F. W., carbohydrate changes in muscadine grape shoots during the growing season, III, 534.
- Pickett, W. F., and Kenworthy, A. L., relationship between structure, chlorophyll content, and photo-synthesis in apple leaves, III, 700.
- Pickford, G. E., distribution of dipeptidase in salamander gastrula, III, 619.
- Pickworth, F. A., occurrence and significance of small vascular lesions in brain, III, 235.
- Pidgeon, B. E. See Frisch, A. W., and Tripp, J. T.
- Pidra, J. See Lebduska, J.
- Piechowicz, T. See Schütze, H.
- Pielau, D. P., humidity behaviour of mealworm beetle, III, 249.
- Pielemeier, W. H., supersonic measurements in carbon dioxide at 0° to 100°, I, 301.
and Byers, W. H., supersonic measurements in carbon dioxide and water vapour at 98°, I, 301.
- Pieper, G. See Wittig, G.
- Pierce, A. E. See Northey, E. H.
- Pierce, C. See Dubois, R. J.
- Pierce, G. O. See Kabler, P.
- Pierce, J. G. See Loring, H. S.
- Pierce, J. S., Salsbury, J. M., Haden, W. W., and Willis, L. H., local anaesthetics. II. Alkoxybenzoates of β -monoalkylamino- β -methylpropano- α -ols and β -monoalkylamino-butano- α -ols, II, 133.
- Pierce, L. F., and Brazeale, E. L., removal of bivalent cations from solution by beef heart antigens, III, 778.
- Pierce, M., cultivation of human leukæmic leucocytes on chorioallantoic membrane of chicken egg, III, 5. Fowl leukosis; transfer to chick embryo, III, 490.
- Pierce, M. E., Kempf, J. E., and Soule, M. H., effect of dilution of neutral mixtures of Eastern equine encephalitis virus and antiserum, III, 695.
See also Kempf, J. E.
- Pierce, P. P., and Aldrich, C. A., chronic haemolytic anaemia with paroxysmal nocturnal haemoglobinuria (Marchiafava-Micheli syndrome), III, 545.
- Pierce, W. M., silicosis: occurrence and control, III, 199. Hazards and control of industrial toxic solvents, III, 270.
- Pieronek, V. R. See Hennion, G. F.
- Pierpont, D. C., is acute lobar pneumonia a complication of silicosis ?, III, 837.
- Pierre, W. H. See Rogers, H. T.
- Pierron, P., action of chlorine on anhydrous metallic oxides at room temperature, I, 65.
- Piesker, B., determining the coefficients of friction μ_0 and μ , I, 320.
- Pietz, J., physiology of root nodule bacterium, III, 207.
- Piggot, C. S., and Urry, W. D., time relations in ocean sediments, I, 321.
- Piggot, M. G. See Holmes, A. D.
- Pijoan, M., cyanide poisoning from choke cherry seed, III, 268.
- Elkin, C. A., and Eslinger, C. O., ascorbic acid deficiency among Papago Indians, III, 578.
See also Keeley, J. L.
- Pijper, A., microcinematography of agglutination of typhoid bacilli, III, 439.
and Poole, L. B., time lapse cinemicrography, III, 296.
- Pike, R. M., and Mackenzie, G. M., virulence of *Salmonella typhimurium*. I. Experimental infection in mice with strains of high and low virulence, III, 214.
See also Mackenzie, G. M.
- Pikovskiy, M. See Doljanski, L.
- Pilat, S. See Neyman-Pilat, E.
- Pilgrim, F. J., Axelrod, A. E., and Elvehjem, C. A., metabolism of pyruvate by liver from pantothenic acid- and biotin-deficient rats, III, 42.
See also Mowat, J. H.
- Pilkington, R. W., facet mutants of *Drosophila*, III, 3.
See also Waddington, C. H.
- Pincock, A. C. See Sharpey-Schafer, E. P.
- Pincus, G., diurnal rhythm in excretion of urinary ketosteroids by young men, III, 656. Urinary ketosteroids, III, 746.
and Pearlman, W. H., metabolism of oestrone in men and non-pregnant women, III, 326.
See also Pearlman, W. H.
- Pineus, I. J., Thomas, J. E., and Rehfuss, M. E., influence of duodenal acidity on gastric secretion, III, 394.
- Pincussen, L. See Bergeim, O.
- Pines, B., and Rabinovitch, J., idiopathic segmental infarction of greater omentum, III, 328.
- Piness, G. See Small, W. S.
- Pingert, F. P., vacuum desiccator for synthetic organic laboratory, I, 187.
See also Allen, C. F. H.
- Pinkerton, H., pathogenic rickettsiae: their nature, biologic properties, and classification, III, 288.
- Pinner, M. See Tobler, A. B.
- Pinnock, D. D., and Wood, P., blast injury to abdomen by depth charge, III, 568.
- Pinsch, H., traumatic causation of Pfeiffer's glandular fever, III, 777.
- Pinsker, Z. G., electronographic determination of structure of cadmium bromide, I, 82. Electron diffraction study of structure of cadmium iodide, I, 118.
- Novikova, V. A., and Tatarinova, L. solubility of kaolin in water, I, 88.
and Tatarinova, L. I., electron diffraction by silver amalgams, I, 8. Electron diffraction study of cadmium chloride, I, 146.
- Pinson, E. A., evaporation from human skin with sweat glands inactivated, III, 680.
- Piontelli, R., and Poli, G., reactions between metals and electrolyte solutions. V. Existence of difference effect in metal replacement processes, I, 19.
- Piotrowski, G., familial central neurofibromatosis, III, 164.
- Piper, J. D., Kerstein, N. A., and Fleiger, A. G., enclosed laboratory apparatus for effecting repeated crystallisations from solvents, I, 73.
- Pipes, D. M., Seitz filtering directly into storage bottles, III, 61.
- Piquet, J. See Frommel, E.
- Pirani, M., conditions favouring the start of an arc discharge between cold activated electrodes at 50 cycles per second, I, 78.
- Piras, S. See Monti, L.
- Pirene, N. H. See Hecht, S.
- Pirie, A., hyaluronidase and polysaccharide from tumours, III, 250. Relation of riboflavin to eye, III, 729.
See also Philpot, F. J.
- Pirie, J. H. H., and Grasset, E., comparison of antigenic qualities of strains of avirulent *B. pestis*, III, 524.
- Pirie, N. W. See Bawden, F. C.
- Pirosky, I., Sampayo, R., and Francheschi, C., preparation and purification of serum anti-*Latrodectus mactans*, III, 777.
- Pirot, E. See Emmert, B.
- Pisetsky, J. E., and Kozinn, P. J., total alopecia associated with ocular disorders, III, 20.
- Pish, G. See Clark, G. L.
- Pistor, W. J., and Rowe, C. F., prevention and control of poultry diseases and parasites, III, 205.
- Pi Suner, A., effect of carbon dioxide inhalation by trunk on respiratory movements of isolated head following denervation of heart, III, 463.
- Pitman, L. K., plasma administration, III, 457.
- Pitschak, G. See Abderhalden, E.
- Pitt, B. M. See Phillips, R. F.
- Pittar, C. A., "hole" at macula due to looking at sun, III, 236.
- Pittet, N. See Laszt, L.
- Pittman, M., action of sulphonamide compounds in *H. influenzae*, III, 340.
- Pittman, M. S. See McKay, H.
- Pitts, R. F., function of components of [central] respiratory [centre] complex, III, 795.
- Pitts, W., linear theory of neurone networks; dynamic problem, III, 465.
- Pitzer, K. S., and Scott, D. W., thermodynamics and molecular structure of benzene and its methyl derivatives. I. Heat capacities, heats of fusion and vaporisation, vapour pressures, and entropies of benzene, toluene, and xylenes. II. Equilibrium

- Pitzer, K. S., and Scott, D. W.—continued.
and heat content relationships between benzene, toluene, and each of the xylenes; f.p. diagram of the system, *o*-, *m*-, and *p*-xylenes. III. Vibration frequencies of benzene. IV. Vibration frequencies of toluene, *o*-, *m*-, and *p*-xylenes, and mesitylene. V. Internal rotation of methyl groups attached to a benzene ring, I, 218, 223, 228.
See also Guttman, L.
- Pizzolato, P. See Pearson, B., and Stasney, J.
- Pizzotti, R. See Malatesta, L.
- Plachte, F. L. See Straus, O. H.
- Plagge, D. W., normal development and experimental treatment of opossum mammary gland primordium, III, 325.
- Plaichinger, I. See Wessely, F. von.
- Plank, R., thermal conductivity of fluorochloro-derivatives of methane in liquid state, I, 10.
- Plankenhorn, E. See Freudenberg, K.
- Plati, J. T. [with Strain, W. H., and Warren, S. L.], iodinated organic compounds as contrast media for radiographic diagnoses. II. Ethyl esters of iodinated straight- and branched-chain phenyl-fatty acids, II, 327.
- Platou, E. S., and Platou, R. V., intestinal haemorrhage and obstruction in hemophilia, III, 484.
- Platou, R. V. See Hansen, A. E., and Platou, E. S.
- Platt, A. P. See Channon, H. J.
- Platt, B. C. See Balfe, M. P.
- Platt, B. S., and Glock, G. E., azo-colour reaction for determination of vitamin-B₁ in National flour, III, 824.
See also Peters, R. A.
- Platt, J. R., Clark, H. E., Cohen, A. A., and Caldwell, P. A., slotted cylindrical rotors for photometric calibration, I, 210.
- Plattner, P. A., and Jampolsky, L. M., preparation of $\alpha\beta$ -unsaturated aldehydes, II, 195.
and Klaui, H., sesquiterpenes. LX. Oxidative degradation of norcedrenediacarboxylic acid by nitric acid, II, 377.
- Klaui, H., and Kusserow, G. W., sesquiterpenes. LV. Stepwise degradation of norcedrenediacarboxylic acid, II, 97.
and Markus, R., sesquiterpenes. LVII. Crystallised cadinol from Java oil of lemon, II, 168.
and Patzki, J., steroids and sex hormones. LXXXVI. Products of hydrogenation of 5:6:20:22:3-hydroxynorcholadienoic acid, II, 375.
and Roniger, H., sesquiterpenes. LVIII. 4:8-Dimethyl-6-isopropylazulene, II, 258.
See also Ruzicka, L.
- Platts, W. M. See Park, R. G.
- Platz, B. R. See Quackenbush, F. W.
- Platzer, N. See Spath, E.
- Plaut, A., eye-glasses to be used with binocular microscope, III, 703.
and Dreyfuss, M. L., adenosis of vagina and its relation to primary adenocarcinoma of vagina, III, 660.
and Kohn-Speyer, A. C., the skin tunnel, III, 896.
- Plaut, G. See Dyson, M., and Lawrence, B. J.
- Plaut, J. A., Tenant, R., and Oughterson, A. W., irradiation of transplanted Bagg-Jackson and Yale carcinomas in mice, as affected by diet and foster nursing, III, 183.
- Plaut, J. L. See Sokolow, M.
- Plein, E. M., and Dewey, B. T., identification of organic bases by means of optical properties of dilutates (nitrobarbiturates); aliphatic amines, II, 348.
- Plempé, H. See Fischer, W.
- Plentl, A. A., Davis, W. W., and Page, I. H., nature of renin activator, III, 380.
and Page, I. H., enzymic nature of angiotonin formation from renin and renin activator III, 351.
- Plesset, E. H., nuclear excitations resulting from radioactive decay, I, 3.
- Plesset, M. S. See Van Harreveld, A.
- Plieninger, H. See Fischer, Hans.
- Ploetz, T., lignin. XL. Enzymic degradation of polymeric carbohydrates. VII. Fractionation of linden wood and enzymic degradation of the fractions, II, 315.
See also Freudenberg, K.
- Plotke, F. See Saphir, W.
- Plotz, H., Anderson, T. F., Chambers, L. A., and Smadel, J. E., morphological structure of rickettsiae, III, 696.
- Hamilton, H. L., and Reagan, R., transmission of murine strain of poliomyelitis to Syrian hamster, III, 358.
and Wertman, K., use of complement fixation test in Rocky Mountain spotted fever, III, 70.
- Plotz, M. See Naumann, H. N.
- Plouvier, V., fruits of species of *Amelanchier* and *Nuttallia cerasiformis*, Torr. and Gray, III, 219.
- Pluedeman, E. P. See Henne, A. L.
- Plume, C. A. See McGee, L. C.
- Plummer, H. C. See Fraser, D. T.
- Plummer, N. See Ensworth, H. K., and Gilligan, D. R.
- Poate, H. R. G., Bartholomew, R. J., and Wilson, T. E., hippuric acid [liver] test in thyrotoxicosis, III, 882.
- Pobeguin, T., growth *in vitro* of needles of calcium oxalate which form the raphides in gum of *Zelkova pendula*, Schnizl, III, 218.
- Pobirs, F. W. See Hoffman, A. M.
- Pobloth, H. See Hein, F.
- Pocock, B. W., constant-level device for hot water baths [using distilled water], I, 73.
- Pócea, J. See Naray-Szabó, S. von.
- Podloucky, F. H. See Bayerle, H.
- Podolsky, H. M. See Friedman, M. H. F.
- Podszus, E., b.p. of carbon and the high-current arc, I, 213.
- Podtschainova, V. N. See Tananaev, N. A.
- Poe, C. F. See Dewey, B. T.
- Poggi, A. R., benzyl derivative of 4-methyl-cyclohexanone, II, 135.
[with Müller, M.], steric hindrance to ketonic function. II. Velocity of oximation of cyclohexanone and of its monomethyl derivatives, II, 164.
[with Rossi, A. M., and Maurizi, A. J.], steric hindrance to ketonic function. III. Velocity of oximation of 2-benzylidene-derivatives of cyclohexanone and its homologues, II, 164.
[with Wiechmann, E.], steric hindrance to ketonic function. IV. Velocity of oximation of 2-benzyl derivatives of cyclohexanone and its homologues, II, 164.
and Carrara, A., steric hindrance to ketonic function. I. Velocity of formation of oximes of cyclohexanone and its derivatives, I, 132.
- Pogodin, S. A., and Zelikman, A. N., diagram of state for nickel-niobium system, I, 122.
- Pohl, J. F., and Baethke, D., vitamin-E in progressive muscular dystrophy, III, 96.
See also Cole, W. H.
- Pohlan, A. G., diaphragm-rod prosthesis for middle ear, III, 643.
- Pokrovski, N. L. See Didenko, A. M.
- Poland, E. F. See Hopkins, E. W.
- Polano, M. K. See Noyons, E. C.
- Polanyi, M. See Butler, E. T.
- Polatin, P., Spontz, H., and Wiesel, B., ambulatory insulin treatment of mental disorders, III, 164.
- Polayes, S. H., and Squillace, J. A., severe reaction to dried human plasma transfusion, III, 83.
See also Banowitch, M. M.
- Polderman, H., McCarrell, J. D., and Beecher, H. K., effect of anaesthesia on lymph flow (local procaine, ether, pentobarbital sodium), III, 911.
See also Cope, O.
- Poles, F. C., and Boycott, M., syncope in blood donors, III, 460.
- Polesitski, A., Jastschenko, M., and Barantschik, N., equivalence of chemical bonds of multi-valent atoms, I, 52.
- Polevitzky, K. See Mudd, S.
- Polgar, A., and Zechmeister, L., isomerisation of β -carotene; isolation of a stereoisomeride having increased adsorption affinity, II, 25.
See also Jendrassik, L.
- Poli, G. See Piontelli, R.
- Policoff, L. D. See Bloom, N.
- Poling, E. C. See Gyorgy, P.
- Polianov, K. M' , dependence of magnetic properties of a substance on frequency I, 118.
- Poljak, E. V., and Sergeev, S. V., viscosity of aluminium-silicon alloys, I, 88.
- Poljakov, M. V., and Kuleshina, L. P., ignition of gas mixtures, I, 183.
See also Vainschtien, F. M.
- Pollack, H., Ellenberg, M., and Dolger, H., postoperative precipitation of vitamin-B complex deficiencies, III, 575.
See also Ellenberg, M., and Glass, W. I.
- Pollack, M. A., absence of β -alanine from proteins, II, 247. Growth effects of α -methyl homologues of pantothenic acid and β -alanine, II, 321, 847.
and Lindner, M., growth stimulant for *Lactobacillus casei*, III, 354.
- Sortomme, C. L., and Taylor, A., effect of variations in oxygen pressure on tumour transplants, III, 569.
- Taylor, A., Taylor, Jean, and Williams, Roger J., *B*-vitamins in cancerous tissues. I. Riboflavin, III, 491.
- Taylor, A., Thompson, R. C., Williams, Roger J., and Woods, A., *B*-vitamins in cancerous tissues. III. Biotin, III, 491.
See also Taylor, A.
- Pollak, O. J., semen and seminal stains, III, 327. Postmortem examination in cases of suspected rape, III, 890.
- Pollara, L. Z., surface tension and vapour pressure, I, 120.
- Pollard, C. B. See Kitchen, L. J.
- Pollard, H. M., Arbor, A., and Stuart, G. J., experimental reproduction of gastric allergy in human beings with controlled observations on the mucosa, III, 926.
- Pollard, M. See Reynolds, F. H. K.
- Pollister, A. W. See Mirsky, A. E.
- Pollock, G. A., cardiac massage, III, 376.
- Pollock, J., geology of quicksilver deposits in the United States, I, 242.
- Pollock, L. J., Arieff, A. J., and Finkelman, I., toxicity of pyridine in man (hepato-renal syndrome), III, 515.
and Finkelman, I., potential changes in injured and uninjured muscle during tetanus produced by stimulation by induced current, III, 465.
- Pollock, M. R., and Knox, R., bacterial reduction of tetrathionate, III, 924.
See also Knox, R.
- Pollock, W. F., histochemical studies of interstitial cells of the testis, III, 224.
- Polare, D., blood-amylase [determination], III, 866.
- Ratish, H. D., and Bullowa, J. G. M., measurement of blood-amylase activity by cuprous oxide precipitation, III, 228.
- Polskin, L. J. See Russell, W. C.
- Polunin, N., high-concentration hydrogen cyanide fumigation of fungi and bacteria, III, 275.
- Polya, E., re-establishment of gastro-intestinal passage after gastric resection, III, 177.
- Polya, J. B., reactions of $\beta\beta'$ -dichlorodiethyl sulphide, II, 287.
- Polzin, E. See Krabbe, W.
- Pomales-Lebron, A., and Morales-Otero, P., proteus X bacilli and Weil-Felix reaction, III, 525.
- Pomerance, H. S., and Beutler, H. G., identification of orders and ghosts in grating spectra by diffracting slits, I, 186.
- Pomerantz, L. See Mulinos, M. G.
- Pomerat, C. M., direct applications of tyrothricin and allantoin to cells *in vitro*, III, 452.
- Pomerene, E. See Dominguez, R.

- Pommerenke, W. T., and Hahn, P. F., secretion of radioactive sodium in human milk, III, 811.
- Hahn, P. F., Bale, W. F., and Balfour, W. M., transmission of radioactive iron to human foetus, III, 242.
- Poncher, H. G., Weir, H. F., and Davidson, I., haemolysins in acute haemolytic anaemia, III, 863.
- Weir, H. F., and Limarzi, L. R., chronic myelogenous leukaemia in early infancy, III, 86.
- See also Limarzi, L. R.
- Ponder, E., determining plasma density and plasma-protein concentration, III, 228.
- Properties of red cell ghost, III, 545.
- Red-cell surface, III, 621. Shape transformations in nucleated erythrocytes, III, 621. Acceleration of haemolysis in relation to chemical structure. III. The C_{10} alcohols, III, 622.
- and Ponder, R. van O., cytology of polymorphonuclear leucocyte in toxic conditions, III, 301.
- See also Furchtgott, R. F.
- Ponder, R. van O. See Ponder, E.
- Pongratz, A., and Wüstner, H., behaviour of azobenzene and hydrazobenzene towards methyl iodide; benzidine transformation, II, 259.
- Ponomarev, V. D., volumetric determination of iodide ion in mercury compounds, I, 313.
- Pontecorvo, G., hybrid sterility in artificially produced recombinants between *Drosophila melanogaster* and *D. simulans*, III, 477.
- Viability interactions between chromosomes of *Drosophila melanogaster* and *D. simulans*, III, 784.
- Ponting, J. D., extraction of ascorbic acid from plant materials; relative suitability of various acids, III, 667.
- Ponzini, S. See Galimberti, P.
- Ponzio, G., dioximes, CXXV, II, 35.
- Pool, J. L. See Watson, W. L.
- Pool, M. L. See O'Connor, J. J., and Weimer, (Miss) K. E.
- Poole, H. H., illumination and visual range under water, III, 17.
- Poole, J. H. J., and Gilmour, J. C., sensitive relay operated by fluid flow, I, 139.
- Poole, L. B. See Pijper, A.
- Popjak, G., colorimetric determination of total, free, and ester cholesterol in tissue extracts, III, 928.
- Poplett, R. See Balfe, M. P.
- Popova, N. V., hematopoiesis in normal and splenectomised rabbits under influence of anaemic serum, III, 370.
- Popp, L. See Clusius, K.
- Popp, W. C. See Currens, J.
- Poppel, M. H. See Bercow, C.
- Popper, D. M., and Swings, P., spectrum of comet 1942a (Whipple), I, 114.
- Popper, E. See Spacu, G.
- Popper, H., and Brenner, S., fate of excess vitamin-A stores during depletion: histological demonstration of vitamin-A, III, 253.
- See also Cornbleet, T., and Ragins, A. B.
- Popper, H. L., enzyme studies in oedema of pancreas and acute pancreatitis, III, 396.
- Diffusion of pancreatic enzymes through intestinal wall in ileus, III, 396.
- and Necheles, H., relation of pancreatic secretion to fatty changes in liver, III, 328.
- Poppiti, R. See Rottino, A.
- Porter, A. W. See Happay, F.
- Porter, D. R. See Kehman, E. F.
- Porter, H. D. See Weissberger, A.
- Porter, J. D., electro-osmosis apparatus, I, 166.
- Porter, J. R., and Rettger, L. F., influence of diet on distribution of bacteria in stomach, small intestine, and caecum of white rat, III, 61.
- See also Pelczar, M. J., jun.
- Porter, R. R. See Yeomans, A.
- Porter, T. See Kelly, E.
- Porter, W. B. See Tucker, H. G., jun.
- Portevin, A. See Moreau, L.
- Portmann, U. V., malignant tumours of thyroid gland, III, 185.
- Porto, J., venom glands of *Latrodectus mactans* and *geometricus*, III, 860.
- Posey, L. C., papilloma of choroid plexus, III, 101.
- Posner, A., standardisation and checking of Schiøtz tonometers, III, 876.
- Pospelov, B. A., and Evstrop'ev, K. S., viscosity of glasses of system $Na_2Si_2O_5 \cdot PbSiO_3$ in region of softening temperature, I, 11.
- Pospelova, K., and Rebinder, P., spontaneously forming emulsions; formation of soluble oils; adsorption layers in disperse systems, I, 60.
- Post, H. W., and Norton, H. M., silico-organic compounds. IV. Action of organic acid halides and of hydrohalogen acids on silico-orthoesters, II, 79.
- Post, J. See Haig, C.
- Post, K., relationship of temperature to flower bud formation in chrysanthemum, III, 698.
- and Nixon, M. W., apparatus for continuous recording of light intensity in footcandles (graphic light meter), III, 703.
- and Weddle, C. L., effect of temperature and photo-period on growth and flowering of miscellaneous annuals, III, 778.
- Post, L. T., lifelong care of eyes, III, 16.
- Posternak, T., Jacob, J. P., and Ruelius, H., synthesis of emodin and of fumigatin, II, 12.
- Postoloff, A. V. See Farber, J. E.
- Poston, M. A. See Menefee, E. E., jun., and Orgain, E. S.
- Pot, A. W., isolation of *Bacterium typhosum*, III, 438.
- Potapov, I. V., and Goltzschmidt, V. A., catalytic action of quaternary ammonium salts, I, 158.
- Poth, E. J., cutting skin grafts with new instruments, III, 400. Succinylsulphathiazole, III, 584.
- Chenoweth, M. jun., and Knotts, F. L., treatment of bacillary dysentery with succinylsulphathiazole, III, 264.
- Pothmann, A. See Schneider, W.
- Pottenger, J. E., serial inoculation of guinea-pigs for demonstration of *Mycobacterium tuberculosis*, III, 214.
- Potter, E. F., and Jones, C. B., separation and determination of protein-sulphur, sulphide-sulphur, and other sulphur in sodium sulphide dispersions of keratin, II, 148.
- Potter, E. I., importance of post-mortem examination of foetus and newly-born infant, III, 657.
- Potter, E. L., and Young, R. L., heterotopic brain tissue in lungs of two anencephalic monsters, III, 449.
- Potter, G. F. See Fernholz, D. L.
- Potter, J. S., Victor, J., and Ward, E. N., histological changes preceding spontaneous lymphatic leukaemia in mice, III, 569.
- and Ward, E. N., mitochondria in lymphocytes of normal and leukemic mice, III, 331.
- See also Claude, A.
- Potter, R. L., Axelrod, A. E., and Elvehjem, C. A., riboflavin requirement of dogs, III, 409.
- Potter, T. S., death of tubercle bacilli subjected to oxygen deprivation in presence of moisture and warmth; asphyxiated bacteria as vaccine in tuberculosis, III, 439.
- Potter, V. R., inhibition of sulphhydryl-containing enzymes by split products of *p*-dimethylaminoazobenzene, III, 428.
- and Albaum, H. G., hydrogen transport in animal tissues. VII. Inhibition by ribonuclease, III, 597.
- and DuBois, K. P., hydrogen transport in animal tissues. VI. Inhibition of succinic dehydrogenase, III, 518.
- See also DuBois, K. P., and Schneider, W. C.
- Potts, W. J., and Smith, Sidney, pulmonary embolism: clinical and experimental study, III, 305.
- Pough, F. H., mineralogy of [Rolla] Missouri hematite sinks, I, 243.
- Pounden, W. D. See Boyer, P. D., and Monroe, C. F.
- Powell, C. E., Lee, H. M., and Swanson, E. E., barbituric acid derivatives; relationship between action on smooth muscle and frog's heart and chemical action, III, 676.
- See also Chen, A. L.
- Powell, E. O., and Trendall, J. H., apparatus for following course of chemical reactions in solution, I, 288.
- See also Finn, S. R.
- Powell, G. See Bembry, T. H., and Block, P., jun.
- Powell, H., and Evans, E. J., Hall effect and physical constants of alloys. VII. Aluminium-silver series of alloys, I, 198.
- Powell, H. M., Cooke, P. W., and Huse, G., structure of molecular compounds. I. Crystal structure of *p*-iodoaniline-*s*-trinitrobenzene, I, 177.
- and Huse, G., structure of molecular compounds. II, I, 300.
- See also Clark, D.
- Powell, R. C., jun., and Shaw, J. C., non-utilisation of lactic acid by lactating mammary gland, III, 243.
- See also Shaw, J. C.
- Powell, R. E., and Eyring, H., properties of liquid sulphur, I, 197.
- Powell, R. H., laboratory apparatus progress, I, 44.
- Powell, S. See Russ, J. D.
- Powell, W. F. See Oliphant, J. W.
- Powell, W. M. See Nielsen, C. E.
- Power, A. D., indicator for level of liquids, I, 267.
- Power, M. H. See Williams, R. D.
- Powers, E. B., and Clarke, R. T., migratory movement of fishes, especially salmon, III, 487.
- Powers, J. H., and Murray, M. F., juvenile hypertension with unilateral kidney disease, III, 93.
- Powers, J. M. See Cuyler, W. K.
- Powers, J. R. See Barnett, H. L.
- Powers, P. B. A., metrical studies on spermatogonial chromosomes of Acrididae, III, 157.
- Powers, W. L. See Duggan, L. B.
- Pozner, E., and Amirchanov, A. C., system water-glucose as an example of "ideal" solubility, I, 122.
- Prabhanjanmurty, M. See Solanki, D. N.
- Pradera, E. S., Fernandez, E., and Calderin, O., coconut water, clinical and experimental study, III, 404.
- Prandoni, A. See Wright, I. S.
- Prasad, D. See Doja, M. Q.
- Prasad, M., Dharmatti, S. S., and Kanekar, C. R., ionic [diamagnetic] susceptibility of barium, I, 119.
- and Gegate, V. S., opacity changes in gel-forming mixtures during setting. I. Thorium molybdate, stannic arsenate, and silicic acid gels, I, 256.
- and Mehta, S. D., gel formation by mutual interaction of oppositely charged sols, I, 180. Time of setting and changes in pH during setting of gels formed by interaction of oppositely charged sols. II. Interaction of nickel hydroxide and manganese dioxide sols with aluminium hydroxide sol, I, 305.
- Prasad, R., propagation of ultrasonic waves in liquid mixtures and intermolecular forces, II, I, 58.
- Prasad, S., mineral deficiency effects on *Datura alba*, Nees., III, 853.
- Prater, A. N., Cowles, E. J., and Straka, R. P., determination of ammonia by a diffusion method, I, 41.
- Prats, F., Varas, L. I., and Haraszti, E., massive arsenotherapy of syphilis by continuous intravenous drip method, III, 834.
- Pratt, H. N., and Crossman, R., comparative atopic activity of *Alternaria* spores and mycelium, III, 60.
- Pratt, J. H., pancreatic disease, III, 483.

- Pratt, J. P., methyltestosterone in hypogonadism, III, 121.
See also Stewart, H. L., jun.
- Pratt, L. W. See Iverson, H. A.
- Pratt, P. C., evidence against progesterone-like action of ascorbic acid, III, 577.
- Pratten, J. S. See Boyd, E. M.
- Pray, A. R. See Arnold, E. A.
- Preczel, R. F. See Selwood, P. W.
- Preising, M. J., Slonek, O. F., and Reedy, J. H., analytical reactions involving ignition with manganese nitrate, I, 98.
- Preiss, A. P. See Shafroff, B. G. P.
- Preiss, S., separation of acetic, butyric, lactic, and *d*-gluconic acid, II, 247.
- Prelog, V., and Cerkovnikov, E., double intramolecular alkylation. V. 2-Substituted quinuclidine derivatives, II, 336.
- Cerkovnikov, E., and Heimbach-Juhász, S., double intramolecular alkylation. II. Synthesis of 2-methyl- and 2-ethyl-quinuclidine, II, 336.
- Gustak, E., and Sostarić, N., double intramolecular alkylation. III. Synthesis of 3-methyl- and 3-ethyl-quinuclidine, II, 336.
- Heimbach-Juhász, S., and Režek, A., double intramolecular alkylation. I. Alkyl derivatives of 1-azadicyclo-[1:2:2]-heptane, II, 336.
- Heimbach-Juhász, S., Seiwert, R., and Stern, P., synthesis in series of cinchona alkaloids. II. Synthesis of 6'-methoxy-ruban-9-ol, II, 398.
- Komzák, A., and Moor, E., isomerisation during dehydrogenations in pyridine series, II, 171.
- and Moor, E., isomerisation during dehydrogenations in pyridine series, II, 276.
- Rajner, E., and Stern, P., chemical constitution and antiplasmidic action. V. Derivatives of 2-chloro-5-amino-7-methoxy-acridine, II, 387.
- and Schönbaum, B., double intramolecular alkylation. IV. 1-Azadicyclo-[0:5:5]-dodecane, II, 336.
- and Szilfogel, S., steroids and sex hormones. LXXIX. 5-Methyl-2-ethylpyridine, a dehydrogenation product of solanidine, II, 103.
- See also Cerkovnikov, E., Hahn, V., and Ruzicka, L.
- Prendergast, J. J. See Meek, S. F.
- Prescott, F. See Dodd, H.
- Press, E., and Kennerstein, M additional manifestation of sulphathiazole toxicity, III, 510.
- Press, J., Grandjean, P., and Reichstein, T., bile acids and related substances. XXIV. Esters of 3(β)-hydroxy-11-keto- and 3(β):11(α)-dihydroxy-cholanic acid, II, 237.
- See also Lardon, A.
- Pressburger, R., hay fever, III, 361.
- Pressman, D., determination of micro-quantities of proteins; colorimetric method, II, 288.
- and Brown, D. H., ionisation constants of substituted phenylarsonic acids, I, 201.
- Grossberg, A. L., Maynard, J. T., and Pauling, L., serological properties of simple substances. V. Precipitation of polyhaptenic simple substances and anti-serum homologous to *p,p'*-diazophenyl-azophenylarsonic acid group and its inhibition by haptens, III, 611.
- and Lucas, H. J., hydration of unsaturated compounds. XI. Acraldehyde and acrylic acid, I, 20.
- See also Lucas, H. J., and Pauling, L.
- Preston, F. W. See Bollman, J. L., and Thompson, W. O.
- Preston, W. N. See Hubbard, J. P.
- Preuss, F. S. See Kirshbaum, J. D.
- Prévost, C., application of synionic reactions to quantitative separation of steric and polarity effects, I, 93.
- Price, A. E., and Myers, G. B., sulphathiazole in pneumonia, III, 195.
- See also Freund, H. A., and Frisch, A. W.
- Price, C. C., Bernstein, C., Huber, M. F., and Shafer, H. M., dialkylation of naphthalene; 1:4-dicyclohexylnaphthalene, II, 126.
- Chapin, E. C., and Rieger, M., sterols. III, II, 34.
- and Deno, N. C., reaction of furoic acid with tetrahydronaphthalene, II, 91.
- and Durham, (Miss) D. A., polymerisation of styrene catalysed by *p*-bromobenzene-diazonium hydroxide, II, 86. Polymerisation of styrene in presence of nitrobenzene, 2:4-dinitrochlorobenzene, and nitromethane, II, 258.
- and Fanta, P. E., *s-p*-dichlorotetraphenylethylene, II, 86.
- and Huber, C. F., reaction of furoic acid with aromatic compounds. II. Reaction of methyl furoate with benzene and chlorobenzene, II, 34.
- and Tate, B. E., polymerisation of styrene in presence of 3:4:5-tribromobenzoyl peroxide, II, 223.
- and Tomisek, A. J., *dl*- and *meso*- $\gamma\gamma'$ -diphenyl- $\gamma\gamma'$ -suberodilactone, II, 92. Dialkylation of naphthalene. II. Synthesis of 2:6-diphenyl-naphthalene, II, 223.
- Price, C. W. See McClosky, W. T., and Welch, H.
- Price, Donald, and May, (Miss) E. L., fatty derivatives of salicylic acid and *a*-naphthol, II, 162.
- Price, Donna, and Westheimer, F. H., electrostatic influence of substituents on reaction rates, IV, I, 183.
- Price, J. B. See Amis, E. S.
- Price, J. C. See Lubin, A. J.
- Price, J. W. See Bobey, M. E.
- Price, P. See Rundleff, E.
- Price, P. B., and Longmire, W. P., use of T-1824 in plasma volume determinations, III, 371.
- Price, P. H., and Lucke, J. B., primary limestone structures of West Virginia, I, 27.
- Price, S., Laughlin test for syphilis, III, 148.
- Price, W. A., origin of caliche, I, 324.
- Pritchard, M. M. L. See Barclay, A. E.
- Pritchotko, A., absorption spectra of halogen solutions at low temperatures, I, 87.
- Priider, R. T., and Cole, W. F., alteration products of olivine and leucite in leucite-lamproites from West Kimberley area, W. Australia, I, 28.
- Prien, E. L. See Hurwitz, A.
- Priestley, J. T. See Sprague, R. G.
- Prietschek, A. See Kast, W.
- Primavesi, L. See De Robertis, E.
- Prince, A. L. See Pepkowitz, L. P.
- Prince, A. T., system albite-anorthite-spheene, I, 171.
- Prince, H. E. See Smith, W. A.
- Pringle, J. W. S., reflex mechanism of insect leg, III, 97.
- Pringsheim, P., fluorescence and phosphorescence of thallium-activated potassium halide phosphors, I, 143.
- See also Franck, J.
- Prins, D. A. See Shoppee, C. W.
- Prinzmetal, M., Kayland, S., Margoles, C., and Tragerman, L. J., quantitative determination of collateral coronary circulation, III, 549.
- Prior, A. M. See Taylor, G. L.
- Pritchard, A. L. See Davidson, F. A.
- Pritchard, C. F., and Chirnside, R. C., separation of copper and cadmium by means of quinaldinic acid, I, 264.
- Pritchard, E. A. See Fairhall, L. T.
- Pritchard, G. C. See Savin, L. H.
- Pritchard, R. R. See Bennett, D. J.
- Pritchard, W. H. See Gregg, D. E.
- Pritchett, C. W. See Elks, J.
- Pritchett, J. and Jungkunz, R., carob bean nut (*Semen ceratoniae*), III, 151.
- Procter, I. V., Carpenter, C. C., and Morehead, R. P., relation of chronic cystic mastitis to malignancy, III, 184.
- Proffitt, M. J., flow manostat for various purposes, including candy test, I, 241.
- Proffitt, P. M. C. See Chirnside, R. C.
- Prokopenko, N. M., history of indium in the earth's crust, I, 74. Distribution of indium in Transbaikal, I, 169.
- Propst, S. See Gorham, L. W.
- Proskurnikova, T. A. See Kasparova, S. A.
- Prosser, C. L., acetylcholine actions on invertebrate hearts, III, 866.
- Proth, N. See Lipp, M.
- Proudfoot, W. L., and Ernstene, A. C., atypical pain in angina pectoris, III, 90.
- See also McCullagh, E. P.
- Province, W. D. See Heath, F. K.
- Pruit, L. T. See Hayes, H. T.
- Prunty, F. T. G., and Macoun, S. J. R., chloride excretion in steatorrhœa: comparison with Addison's disease, III, 504.
- and Vass, C. C. N., relationship between ascorbic acid and glutathione *in vivo*, III, 902.
- Przemetzki, V. See Neñizescu, C. D.
- Pscheshetzki, S. J., and Gladishev, A. T., kinetics of catalytic dimerisation of ethylene, I, 158.
- Pu, T. L., and Lo, C. T., detection of war gases. I. Dyes as reagents for detecting phosgene, I, 208.
- Pucher, G. W., organic acids of leaves of *Bryophyllum calycinum*, III, 150.
- and Vickery, H. B., identity of so-called crassulacean malic acid with isocitric acid, III, 150.
- See also Vickery, H. B.
- Puck, T. T. See Loosli, C. G.
- Puddington, I. E., high-temperature stopcock greases, I, 210.
- Puestow, C. B., intestinal motility in man, III, 565.
- See also Kleitsch, W. P., and Reagan, R. E.
- Puffer, M. E., Hinman, W. F., Charley, H., and Halliday, E. G., vitamin-C, carotene, calcium, and phosphorus in expressed vegetable juice, III, 257.
- Pugh, L. H. See Metzer, H. J.
- Pugh, W. See Lloyd, D. J.
- Pugsley, L. I., and Morrell, C. A., variables affecting biological assay of oestrogens, III, 889.
- Pühr, L., neurotoxic effects of sulphanilamide derivatives, III, 673.
- Pullen, R. L., and Sodeman, W. A., diabetes mellitus association with hirsutism and unusual insulin resistance, III, 905.
- Wilson, J. A., Hamblen, E. C., and Cuyler, W. K., andrologic endocrinology. I. Physiology, functional pathology, and diagnosis. II. Treatment of androgenic failure, III, 174, 244. Treatment of seminal failure, III, 481.
- See also Davis, C. D.
- Pulling, B. D., microscopic examination of cornea, III, 310. Localisation of experimental tumours in scars and healing wounds, III, 896.
- and Mann, I., avascular healing in cornea, III, 553.
- See also Mann, I.
- Pulver, R., potassium and carbohydrate metabolism of leucocytes, III, 624.
- Pummerer, R., and Fiesselmüller, H. [with Müller, Otto], indigo dyes of *cis*-series, II, 389.
- and Stiegitz, E., indigoid dyes of *cis*-series. II. *NN'*-Ethyleneindigo, II, 141.
- Pumphrey, R. J. See Holmes, W.
- Puntenney, I., retinal blood pressure, III, 106.
- Puppel, I. D., Klassen, K. P., and Curtis, G. M., calcium metabolism in thyroid disease, III, 644.
- Purdie, D. See Crowther, A. F.
- Purinton, H. J., and Schuck, C., metabolic interrelationships of ascorbic and citric acids, III, 580.
- Purmann, R., wing-pigments of butterflies. VII. Synthesis of leucopterin; nature of guanopterin, II, 395.

- Purmann, R. See also Wieland, H.
 Pursey, R. See Altschuler, S. S.
 Purtell, J. See Murphy, Francis D.
 Purves, C. B. See Gardner, T. S., Gladding, E. K., and Grangaard, D. H.
 Pushin, N. A., Nikolic, L., Radojčin, A., and Uroponova, T., binary systems composed of titanium tetrachloride and nitrocompounds, II, 4.
 Pustelnik, W. See Schütze, H.
 Putman, H. M., augite from Cape Tourmente [Quebec], I, 140.
 Putnam, F. W., Erickson, J. O., Volk, E., and Neurath, H., native and regenerated ox albumin. I. Preparation and physico-chemical properties, III, 838.
 See also Martin, D. S.
 Putnam, T. J., and Liebman, S., cortical representation of macula lutea, III, 167.
 Pybus, F. C. See Miller, E. W.
 Pyke, M. See Melville, R.
 Pyle, S. I. See Buehl, C. C.
- Q.
- Qazilbash, N. A., Indian *Artemisia*, III, 75.
 Quackenbush, F. W., and Steenbock, H., apparatus for crystallisation and filtration at low temperatures, I, 73. Body fats in rat acrodynia, III, 405. Molecular still, I, 267.
 Steenbock, H., Kummerow, F. A., and Platz, B. R., linoleic acid, pyridoxine, and pantothenic acid in rat dermatitis, III, 411.
 See also Gottlieb, H.
 Qudrat Ghani, A. K. M. See Raychaudhuri, S. P.
 Quebecdeaux, W. A., Wash, G., Ney, W. O.*
 Crouch, W. W., and Lochte, H. L., petroleum acids. V. Aliphatic acids from Californian petroleum, II, 250.
 Queen, F. B., permanent preservation of stained and unstained blood films and bacterial smears by paraffin coating, III, 780.
 Quesada, J. J. See Hoyos, J. M.
 Quick, A. J., prothrombin level of blood after intramuscular injection of sodium citrate, III, 546.
 Quigley, J. P., and Read, M. R., spontaneous motility of pyloric sphincter, III, 743.
 Read, M. R., Padzow, K. H., Meschan, I., and Werle, J. M. effect of hydrochloric acid on pyloric sphincter, digestive tract, and gastric evacuation, III, 245.
 Quilico, A., and Musante, C., isoaxazole group. X. Nitro-, amino-, and diazo-derivatives of isoaxazole, II, 74.
 and Panzica, L., fulminic synthesis of isoaxazole derivatives. III, II, 143.
 Quill, L. L. See Larsen, E. M.
 Quilliam, J. P. See Field, C. E.
 Quimby, E. H., dosage specifications in X-ray therapy, III, 54. Physical methods of dosage determination in radiation therapy, III, 348.
 Quimfe, (Miss) G. See Heller, W.
 Quinby, S., and Fiero, G. W., sulphonated hydrogenated castor oil as detergent and ointment base, III, 593.
 Quinn, A., settling of heavy minerals in a granodiorite dyke at Bradford, Rhode Island, I, 242.
 Quinton, (Mile.) M., activity of cadmium ion in solutions of cadmium acetate, I, 17. Hydrolysis of cadmium acetate, I, 67.
 See also Audubert, R.
 Quinton, M. H., and Barnes, H. D., serum-proteins of healthy Bantu males, III, 7.
 Quiring, D. P. See Crile, G.
 Quitmann, E., determination of impurities in air and importance of chemical analysis in meteorology and climatology, I, 235.
 Quortrup, E. R., and Sudheimer, R. L., ecological relations of *Pseudomonas aeruginosa* to *Clostridium botulinum* type C, III, 919.
 Qvist, G. See Endicott, C. L.
- R. Raab, W., abnormal adrenal discharges in angina pectoris and their control by X-ray therapy, III, 23. Adrenaline and related substances in human arterial walls and kidneys, III, 807.
 Rabald, E., and Kraus, J., strophanthin, II, 68.
 Rabe, P., cinchona alkaloids. XXXIII. hetero-Quinine, a 1:1-hydramine, II, 399.
 and Hagen, G., cinchona alkaloids. XXXII. Synthesis of 6'-methoxyruber-9-ols; action of quinone and quinidine, II, 398.
 Rabiner, A. M., Freiman, I. S., and Apter, N., encephalopathy following mapharsen therapy, III, 765.
 Rabinovitch, J. See Pines, B.
 Rabinovitsch, A. J., Bogojavlenski, A. N., and Zuev, J. S., kinetics of development of individual grains of a photographic emulsion, I, 93.
 and Borodulina, R., ionic activity in colloidal solutions. III. Donnan effect in ultrafiltration of colloidal solutions of ferric hydroxide, I, 89.
 and Volkov, V. N., coagulation of colloids by electrolytes. XV. Electrochemical and chemical investigations on monodisperse gold sols. XVI. Electrophoresis cell and measurements on monodisperse gold sols, I, 307.
 Rabinovitsch, B. S., and Winkler, C. A., kinetics of alkaline hydrolysis of propionitrile, I, 64. Hydrolysis of aliphatic nitriles in concentrated hydrochloric acid solutions, I, 64.
 Rabinovitch, E., electron transfer spectra and their photochemical effects, I, 143.
 Rabjohn, N. See Fuson, R. C.
 Racah, G., theory of complex spectra. II. and III, I, 77, 245. Configurations *U's*, I, 109. Structure of $\text{Mo}(\text{CN})_8^{4-}$, I, 194.
 Race, R. R., inheritance and linkage relations of acholuric jaundice, III, 451.
 See also Hamilton-Paterson, J. L., and Taylor, G. L.
 Rachlin, A. I. See Fuson, R. C.
 Rachmilewitz, M., and Rosin, A., studies on bone marrow *in vitro*; cellular pattern and behaviour of explanted bone marrow, III, 861.
 Rackemann, F. M., allergy, III, 531.
 Racker, E., crystallisation of a protein from poliomyelitis-infected mouse brain, III, 609.
 and Kabat, H., metabolism of central nervous system in experimental poliomyelitis, III, 383.
 Rackow, H. See Waelsch, H.
 Racz, C., crystallisation luminescence, I, 84.
 Radcliffe, C. E., relationship of thyroid to polyuria of experimental diabetes insipidus, III, 881.
 Radatz, K. H. See Klemm, W.
 Radha, (Miss) K. S., and Shah, R. C., formylation of methyl γ -resorcylate by Gattermann's reaction; synthesis of methyl 2:6-dihydroxy-3-formylbenzoate, II, 164. Synthesis of 2:4-dimethoxy- and -dihydroxy-isophthalic acids, II, 232.
 Radice, A. See Billman, J. H.
 Radinger, G., and Wittek, H., Raman effect. CXIII. Free rotation. VI. *n*- and iso-Propyl derivatives, I, 144.
 Radl, R. B. See Constans, G. M.
 Radlove, S. B. See Kass, J. P.
 Rado, S., bisexuality, III, 114.
 Radojčin, A. See Pushin, N. A.
 Rae, J. J. See Eastcott, E. V.
 Rack, F. See Leuchs, H.
 Rafetto, J. F., and Nichols, S., nearly fatal reaction to sulphadiazine in 10-year-old girl, involving skin, eyes, and oropharynx, III, 135.
 Rafsky, H. A., and Newman, B., blood-cholesterol in aged, III, 88. Relationship of niacin (nicotinic acid) to porphyrinuria in the aged, III, 576. Liver function tests in aged, III, 744.
- Rafsky, H. A., and Weingarten, M., clinical significance of prerenal azotæmia [in digestive tract disease], III, 88.
 Ragan, M. S. See Sherman, H. C.
 Ragins, A. B., and Popper, H., variation of vitamin-A fluorescence in cyclic changes of ovary, III, 114.
 See also Meyer, K. A.
 Ragsdale, A. C. See Brody, S., Merman, H. A., and Swanson, E. W.
 Rahimullah, M., structure and functions of so-called pyloric caeca in two genera of fishes, *Lactarius* and *Oosphronemus*, III, 449.
 Rahm, W. E., jun. See Dunn, F. L., and Strauss, Hans.
 Rahn, O., and Richardson, G. L., oxygen demand and oxygen supply [for bacteria], III, 206.
 Rai, R. N., and Kothari, D. S., elementary theory of thermal diffusion, I, 274.
 Raichstein, S. See Kotov, V. P.
 Raiford, L. C., and Floyd, D. E., chlorine substitution products of veratraldehyde, veratric acid, and related compounds, II, 367.
 and Freyerth, H. B., action of thionyl chloride on urethanes, II, 218. Formation and properties of uretediones, II, 388.
 Raines, M. M., Krupkin, A. I., and Rodzevitsch, P. V., dynamic determination of free halogens, I, 313.
 Raines, S. L., ureteral obstruction following sulphadiazine, III, 265.
 Rainey, J. J., histamine in treatment of Menière's syndrome, III, 880.
 Rainey, W. T., jun. See Williams, Jonathan W.
 Rainsford, S. G., preservation of vi antigen in T.A.B.C. vaccine: combined active immunisation with T.A.B.C. vaccine in tetanus-formol toxoid, III, 286.
 Raisbeck, M. J. See Thompson, S. A.
 Raistrick, H. See Birkinshaw, J. H., Coulthard, C. E., and Oxford, A. E.
 Raiziss, G. W., and Freifelder, M., *N*¹-sulphanilamidoalkylpyrimidines, II, 106.
 Kolmer, J. A., and Rule, A. M., sulphone compounds in treatment of experimental pneumococcal infections, III, 132.
 Moetsch, J. C., and Severac, M., chemotherapeutic studies of 2-sulphanilyl-3:5-dihydrothiazole (sulphathiazoline), III, 48. Inhibiting effect of compounds on curative action of sulphanilamide and sulpha-pyridine in infected mice, III, 133.
 Rajagopalan, S., preparation of β -2-furylacrylic acid, II, 99. Synthesis of possible lipophilic chemotherapeutics of the sulphanilamide group, II, 144. Search for porphyroxine in Bengal opium, III, 540.
 Rajewsky, B., the Geiger-Müller counter in mining technology, I, 287.
 Schraub, A., and Schraub, E., toxic dose of inspired radium emanation, III, 268.
 Rajka, E., passive transfer in light urticaria, III, 531.
 Rajner, E. See Prelog, V.
 Raju, M. S., bacterial plant groups. IV. and VI. Variations in fermentation characters of different strains of nodule bacteria of cow-pea, *Cicer*, and *Dhaincha* groups, III, 207, 217.
 Rake, D. P. G. See Stokes, J., jun.
 Rake, G., and Jones, H. P., lymphogranuloma venereum. I. Development of agent in yolk sac of chicken embryo, III, 441.
 Jones, H. P., and McKee, C. M., test for activity of antibiotic substances, III, 354. Antiluminescent activity of antibiotic substances, III, 847.
 See also Jones, H. P., McKee, C. M., Maris, E. P., and Shaffer, M. F.
 Rakieten, M. L. See Rakieten, T. L., and Tiffany, E. J.
 Rakieten, N., effects of acetophenetidine, acetanilide, amidopyrine, aniline, and *p*-aminophenol on rate of disappearance of ethyl alcohol from blood, III, 589.

- Rakieten, T. L., and Rakieten, M. L., bacteriophagy in developing chick embryo, III, 924.
- Rakov, A. E., Paschkis, K. E., and Cantarow, A., atypical response of rabbit to deoxy-corticosterone acetate, III, 558.
See also Cantarow, A., and Paschkis, K. E.
- Rakov, H. L., ventricular fibrillation in acute coronary thrombosis during intravenous injection of quinidine sulphate, III, 137.
- Ralli, E. P., Brandaleone, H., and Fein, H. D., comparative effects of protamine zinc and regular insulin in diabetic patients followed over period of years, III, 111.
- and Graef, I., stimulating effect of adrenalectomy on hair growth and melanin deposition in black rats fed diets adequate and deficient in filtrate factors of vitamin-B; effect of diet on post-operative survival, III, 558.
- Ralph, C. C. See Harrison, H. C.
- Ralston, A. W., and Hoerr, C. W., solubilities of normal saturated fatty acids, I, 87.
- Ingle, A., and McCorkle, M. R., effect of solvents on the acylation of phenol with acid chlorides of high mol. wt., II, 93.
- McCorkle, M. R., and Segebrecht, E. W., rearrangement of phenyl octoate with ferric chloride, titanium tetrachloride, stannic chloride, and zinc chloride, II, 93.
See also Dorinson, A., Hoerr, C. W., and Hoffman, E. J.
- Ram, M. See Anand, B. M.
- Ramachandran, G. N., reflexion of light by a periodically stratified medium, I, 119. Theory of coronae and of iridescent clouds, I, 272. Transmission of light through a cloud of randomly distributed particles, I, 272.
- Ramachandran, K. See Rao, A. M.
- Rama Char, T. L. See under Char, T. L. R.
- Ramakrishnan, M. V. S., reflectivities of aluminium and silver films, I, 56.
- Ramamurti, K. K. See Rao, S. R.
- Raman, (Sir) C. V., liquid state, I, 57. Structure and properties of diamond, I, 147. Solid state, I, 194.
- Raman, K. S. V. See Varma, P. S.
- Ramasarma, G. B., vitamin-A metabolism. I. Effect of inclusion of coconut cake in basal diet on utilisation of carotene by vitamin-A-deficient rats, III, 497.
and Hakim, D. N., vitamin-A metabolism. II. Absorption of minimal doses of β-carotene by vitamin-A-deficient rats, III, 497.
- Hakim, D. N., and Rao, S. D., chromatographic adsorption determination of provitamin-A content of foodstuffs, III, 497.
- Ramaswami, L. S., segmentation of head of *Ichthyophis glutinosus*, III, 618.
- Ramaswamy, S., Sreenivasan, B., and Sreenivasaya, M., ergosterol content of yeasts and fungi, III, 520.
- Rambacher, P. See Schoberl, A.
- Rambar, A. C., Hardy, L. M., and Dishbein, W. I., haematologic and radiologic study of infants receiving massive doses of vitamin-D in rickets prophylaxis, III, 755.
- Howell, K. M., Denenholz, E. J., Janota, M., and Standard, R., effect of stimulating dose of *Hemophilus pertussis* vaccine on immunity to pertussis, III, 849.
- Ramberg, E. G. See Baker, R. J.
- Ramberg, L., and Backlund, B., kinetics of reaction between γ-ethylsulphonylbutan-β-one and bromine in aqueous hydrobromic acid, I, 156. γ-Ethylsulphonylbutan-β-one and its bromo-derivatives, II, 152. and Wideqvist, S., tetracyanodimethylcyclopropane, II, 195.
- Ramel, E., and Schenk, J. J., lead intoxication and scurvy, III, 268.
- Ramirez, M. A. See Minor, A. H.
- Ramler, E. O. See Simons, J. H.
- Ramm, W. See Maurer, W.
- Rammelkamp, C. H., tyrothricin therapy of experimental haemolytic streptococcal empyema, III, 136. Concentration of penicillin in body fluids and exudates, III, 338. Absorption, excretion, and toxicity of penicillin administered by intrathecal injection, III, 506.
- and Keefer, C. S., effect of sulphadiazine on haemolytic streptococci, III, 135. Absorption, excretion, and distribution of penicillin, III, 758.
- and Maxon, T., resistance of *Staph. aureus* to penicillin, III, 525.
- and Weinstein, L., toxic effects of tyrothricin, gramicidin, and tyrocidine, III, 266.
See also Keefer, C. S.
- Ramo, S. See Bachman, C. H.
- Rampino, L. D., Kavanagh, K. E., and Nord, F. F., relationship between particle size and efficiency of palladium-polyvinyl alcohol (Pd-PVA) catalysts, I, 311.
- and Nord, F. F., application of palladium- and platinum-polyvinyl alcohol-vanadium catalysts, I, 205.
- Ramsay, A. See Waud, R. A.
- Ramsay, A. J., Thomas, J. E., and Crider, J. O., changes in acinar cells of pancreas in response to presence of peptone in small intestine, III, 744.
- Ramsay, A. M., ophthalmoscope in clinical medicine, III, 641.
- Ramsay, J. A., snail nerve-muscle preparation, III, 96.
- Ramsdell, L. S., gnomonic projection in hexagonal system, I, 177. X-Ray crystallography of burkeite, $2\text{Na}_2\text{SO}_4\text{Na}_2\text{CO}_3$, I, 268.
- Ramsey, T. L., magnesium silicate granuloma, III, 422.
- Ramshorn, K. See Ruhland, W.
- Rana, K. N., chloralamides; chloral-5-acetamidosalicylamide and related compounds, II, 33.
- Rand, G. See Ferree, C. E.
- Randall, H. M. See Oetjen, R. A.
- Randall, L. O. See Hjort, A. M.
- Randall, M. G. See Siegel, M.
- Randall, W. C., alterations in response to changing body temperature following artificial fever and chilling [in fowl], III, 817.
- Randers, G., rotation of stars with convective core, I, 79.
- Rando, L., and Jacquot, R., necessity for quantitative equilibrium between nutrients of diet and vitamin-B₁, III, 334.
- Randolph, T. G., enumeration and differentiation of leucocytes in counting chamber with propylene glycol-aqueous stains, III, 713.
- Rangaswami, S., bitter principles of neem oil, II, 180.
- Rao, J. V., and Seshadri, T. R., kanugin, crystalline component of roots of *Pongamia glabra*, II, 170.
- and Seshadri, T. R., useful colour reactions of anthoxanthins and related compounds, II, 101. Kanugin, I, II, 170.
- Rangier, M. See Lefevre, C.
- Rank, D. H., Scott, R. W., and Fenske, M. R., qualitative and quantitative analysis of hydrocarbon mixtures by means of their Raman spectra, II, 51.
- Rankin, J. See Windle, W. F.
- Ranefeldt, C. E. See Ney, W. O.
- Ransmeier, J. C., activity of sodium sulphadiazine against *B. tularensis*. I. Treatment of experimental tularemia infection in chick embryo. II. Effect on growth *in vitro*, III, 508. Reaction of chick embryo to virulent and non-virulent strains of *Bact. tularensis*, III, 527.
- and Stekol, J. A., effect of sulphur-containing compounds on growth and hydrogen sulphide production by *B. tularensis*, III, 440. Production of hydrogen sulphide from sulphur-containing compounds by bacteria. I. Beef infusion agar medium. II. Synthetic medium, III, 440.
- Ransom, M. See Magoun, H. W.
- Ranson, R. M. See Tynen, J.
- Ranson, S. W. See Hetherington, A. W.
- Rantz, L. A., serological and biological classification of haemolytic and non-haemolytic streptococci from human sources, III, 66. Streptococcal meningitis, III, 135.
- Jacobs, A. H., and Kirby, W. M. M., group A haemolytic streptococcal antibodies; Griffith type agglutinin and antistreptolysin titres in carriers and non-carriers; Griffith type agglutinin and antistreptolysin titres in normal men and in acute infections, III, 775.
- and Kirby, W. M. M., sulphaguanidine in dysentery carriers, III, 418. Enterococcal infections [and sulphonamide], III, 583.
See also Kirby, W. M. M.
- Ranzi, S., analogy between actions of vital stains and sodium thiocyanate on embryonic development, III, 3.
- Rao, A. J., viscometric method for studying alcoholysis of esters, I, 259.
- Rao, A. L. S., visible absorption bands of mercury halides, HgCl , HgBr , and HgI , I, 248.
- Rao, A. M., Ramachandran, K., and Rau, Y. V. S., vitamin-B₁ content of Indian foodstuffs by the thiocchrome method using a sensitive photo-electric fluorimeter, III, 499.
- Rao, B. R., rare occurrence of melilite-diopside-nepheline association in a calciphyre near Nanjangud, Mysore, I, 211.
- Rao, B. S. See Doss, K. S. G.
- Rao, C. V. H. See Seth, J. B.
- Rao, F. L. N., synthesis of *dl*-pinonic acid, II, 306.
- Rao, J. See Rottino, A.
- Rao, J. V. See Rangaswami, S.
- Rao, K. N., structure of band spectrum of phosphorus and nuclear spin, I, 48.
- Rao, K. S., hysteresis in sorption. VII. Scanning of the hysteresis loop; alumina gel-water system. VIII. Permanence and scanning of the hysteresis loop; titania gel-carbon tetrachloride system. IX. Effect of temperature on the hysteresis loop; silica gel-water system, I, 151. Hysteresis in sorption, I, 199.
and Thiruvenkatachar, V. R., hysteresis in sorption. X. Open pore volume in relation to particle radius, I, 225.
- Rao, M. R., thermal conductivity of liquids, I, 10. Thermal conductivity of liquid metals, I, 10. Coefficient of expansion of solids, I, 149.
- Rao, M. R. S., chlorophæite-bearing basalts from the Cuddupah traps (Precambrian), I, 140.
- Rao, N. K. A. See Singh, B. N.
- Rao, N. R., study of electrolytic dissociation in iodic acid by Raman effect, I, 15. Effect of temperature on dissociation of strong electrolytes by Raman effect, I, 153.
- Rao, P. L. N. See Guha, P. C.
- Rao, P. S., constitution of hibiscetin, II, 69. Occurrence of luteolin in flowers of *Chrysanthemum indicum*, III, 540.
and Seshadri, T. R., pigments of flowers of *Hibiscus sabdariffa*; sabdaretin, new hydroxyflavone, II, 170. Structural chemistry of naturally occurring flavones and flavonols, II, 308.
See also Neelakantam, K.
- Rao, S. D. See Ramasarma, G. B.
- Rao, S. R., and Ramamurti, K. K., photoelectric efficiencies of metals in the soft X-ray region, I, 141.
- and Savithri, (Miss) K., thermomagnetic properties of magnesium, silver, and lithium, I, 56.
See also Savithri, (Miss) K.
- Rao, S. S., and De, S. P., penicillin, III, 845.
- Rao, Y. P., Raman frequencies of HDO, I, 31.
and Ananthasubrahmanyam, C. K., photometric study of profiles of Fraunhofer lines in solar spectrum. I. Mg b group, I, 1.
See also Das, A. K.

- Raoult, G. See Bruhat, G.
- Rapaport, H. G., Herman, H., and Lehman, E., treatment of ichthyosis with vitamin-A, III, 407.
See also Peshkin, M. M.
- Raper, H. S. See Harper, A. A.
- Raper, J. R., sexual hormones in *Achyela*. V. Hormone A', a male-secreted augmenter or activator of hormone A, III, 445.
- Raphael, R. A. See Heilbron, I. M.
- Rapaport, S., Leva, E., and Guest, G. M., distribution of acid-soluble phosphorus in livers of fed and fasting rats, III, 814. Distribution of acid-soluble phosphorus in livers of fasted rats fed on glucose, casein, olive oil, or a mixed diet, III, 814.
See also Leva, E.
- Rapp, G. W. See Fosdick, L. S.
- Rapp, K. E., Woodmansee, C. W., and McHargue, J. S., large-scale laboratory extractor of the Soxhlet type, I, 240.
- Rappaport, E. M. See Vorzimer, J. J.
- Rappaport, F., determining sedimentation rate of red blood corpuscles, III, 621. and Eichhorn, F., determination of serum-bilirubin and sulphanilamide, III, 715. Serodiagnosis test for syphilis, III, 776.
- Rappaport, H. See Dobbins, J. M.
- Rapson, W. S., Shuttleworth, R. G., and Niekerk, J. N. van, benzyclooctatetraenes. III. Diphenylene and tetraphenylenes, II, 297.
- Raschkovan, B. A., determination of small concentrations of electrolytes by a galvanic method, I, 313.
- Rascoff, H., beriberi heart in 4-month-old infant, III, 665.
- Rashevsky, N., mathematical biophysics of visual aesthetics, III, 20. Mathematical approach to biology. I. and II, III, 449, 680. Hamiltonian principle in biology and physics, III, 680.
- Rasmussen, A. F., jun. See Clark, P. F.
- Rasmussen, A. T., extent of recurrent geniculo-calcarine fibres (loop of Archambault and Meyer) as demonstrated by gross brain dissection, III, 637.
- Rasmussen, E. See Maynard, L. A.
- Rasmussen, E. W. See Dybing, O.
- Rasmussen, R. A., and Adams, W. E., experimental production of emphysema, III, 95.
- Rasmussen, R. S., infra-red absorption spectrum and configuration of cyclohexane, I, 217.
- Tunnicliff, D. D., and Brattain, R. R., configuration of $\Delta^{\alpha\beta}$ -butadiene, I, 295.
- Rasquin, P. See Beach, F. A.
- Ratcliffe, H. E. See Androp, S.
- Ratcliffe, H. L., neoplastic disease of pancreas of snakes (*Serpentes*), III, 571.
- Rath, F. See Wieland, H.
- Rath, H., and Burkhardt, R., textile chemistry study in 2-hydroxynaphthoic 3-arylamide series, II, 263.
- Rathbone, R. J. See Hamer, (Miss) F. M.
- Rathe, H. W., myocardial infarction, III, 460.
- Rathje, W., phosphates. II. Neutral and basic phosphates of alkaline-earth metals. IV. Neutral and basic phosphates of heavy metals. V. Low crystallisation velocity of tertiary phosphates, I, 312.
See also Giesecke, F.
- Ratish, H. D. See Polowe, D.
- Ratnagiriswaran, A. N., and Venkatachalam, K., auricularine, alkaloid from roots and stems of *Hedyotis auricularia*, II, 177.
- Ratner, B., treatment of asthmatic attack in children, III, 464.
- Ratner, S., Weissman, N., and Schoenheimer, R., metabolism of *d*-lysine investigated with deuterium and heavy nitrogen, III, 504.
See also Green, D. E.
- Ratsek, J. C., fading in rose blooms, III, 535.
- Rattner, H., and Falk, A. B., severe reaction after mapharsen, III, 421.
- Rau, K. G. See Ray, S. N.
- Rau, W., solar half-day period of cosmic rays at the equator, I, 215.
- Rau, Y. V. S., and Murty, V. V. S., utilisation of calcium from green leafy vegetables, III, 496.
See also Rao, A. M.
- Rauch, K. See Fischer, F. G.
- Rauch, W., ultra-violet dispersion frequencies of alkali-metal oxides, I, 218.
- Rauen, H. M., vitamin-C content of Italian tomatoes and tomato produce, III, 903.
- Rauls, L. See Watson, B. A.
- Raulston, B. O. See Magnuson, H. J.
- Ravdin, I. S., protection of liver from injury, III, 485.
See also Lockwood, J. S., and Stengel, A.
- Ravitsch, G. B., viscosimetric investigation of higher fatty acids and triglycerides, I, 302.
- Rawcliffe, R. D., electronic method of measuring molecular lifetimes, I, 71.
- Rawlins, A. L., Sweet, L. A., and Joslyn, D. A., relationship of chemical structure to germicidal activity of quaternary ammonium salts, III, 522.
See also Joslyn, D. A.
- Rawlins, T. E., nature of viruses, III, 528.
- Rawlinson, W. A., biological aspects of copper, III, 496.
See also Gottschalk, A.
- Rawls, W. B., prevention of cinchophen toxicity by use of vitamin-K, III, 592.
- Rawson, A. J. See Abbott, W. O.
- Rawson, R. W. See Starr, P.
- Ray, B. R. See Friedman, L.
- Ray, F. E., and Bowden, G. L., jun., mixed β -naphthyl thioethers, II, 187.
and Francis, W. C., polynitro-compounds of fluorene, II, 197.
and Rievesch, G., jun., alkamine esters of fluorenecarboxylic acids, II, 266.
and Szasz, G. J., sulphonium compounds. II. Derivatives of nitric and of organic acids, II, 214.
- Ray, J. C. See Niyogi, A. K.
- Ray, P., complex silver compounds with tervalent silver, I, 260.
and Ghose, S. P., complex compounds of diguanide with bivalent metals. IV. Palladium diguanidine and its salts, I, 262.
and Siddhanta, S. K., complex compounds of diguanide with bivalent metals. V. Copper and nickel *m*-phenylenebisdi-guanidine and their salts, II, 361.
- Ray, R. C. See Sahai, R. B. N., and Sinha, P. C.
- Ray, S. K., band spectrum of bismuth monochloride, I, 49.
- Ray, S. N., Chand, K., and Ran, K. G., vitamin-A and -C in cow's milk; synthesis of vitamin-C in bovines, III, 41.
- Ray, S. P. See Mitra, R. P.
- Ray, T. W., and Deysach, L. J., storage of manganese by thyroid; effect on oxygen consumption in guinea-pig, III, 321.
- Ray, W. A. See Jones, G.
- Raychaudhuri, S. P., and Miah, A. H., ageing of alumina and silica gels and precipitates obtained from mutual coagulation of alumina and silicic acid sols, I, 305.
and Qudrat Ghani, A. K. M., physicochemical and electrokinetic properties of gels of silicic acid and aluminium hydroxide and synthetic and natural aluminosilicates, especially in relation to ion exchange phenomena, I, 61.
- Rayleigh, (Lord), laboratory synthesis of diamond, I, 160.
- Rayman, M. M. See Underkofer, L. A.
- Raymond, P. E., pigment in black and red sediments, I, 27.
- Raymond, R. See Hansen-Pruss, O. C.
- Raymond-Hamet, vascular effects of bufotenin, III, 347. Vasoconstrictive action of bufotenin, III, 511.
- Rayner, A. G., preservation of cultures and sera by drying, III, 855.
- Raynor, C. L., Thomassen, L., and Rouse, L. J., self-diffusion of copper, I, 302.
- Razgha, A., and Zselyonka, L., temperature of skin of healthy individuals, III, 766. Influence of room temperatures on temperature of skin, III, 766.
- Razim, W. W., mathematical expression and interpretation of scientific measurements, I, 187.
- Razumovski, N. K., role of logarithmically normal law of frequency distribution in petrology and geochemistry, I, 140.
- Rea, C. E., massive adenomatous goitre successfully removed, III, 237.
- Read, H. C. See McPhail, M. K.
- Read, M. R. See Quigley, J. P.
- Reagan, R. See Plotz, H.
- Reagan, R. E., and Puestow, C. B., activity of isolated segments of colon of dog, III, 329.
- Reamer, H. H., Olds, R. H., Sage, B. H., and Lacey, W. N., phase equilibria in hydrocarbon systems; methane-decane system; composition of dew-point gas in ethane-water system, I, 91, 257.
See also Olds, R. H., and Sage, B. H.
- Reames, H. R. See O'Leary, J. L.
- Reardon, L. V. See Rees, C. W.
- Rebek, M., detection of acid groups in native cellulose by salt formation with crystal-violet base, I, 306.
- Rebinder, P., Lichtman, V. I., and Maslennikov, V. M., deformation of single-crystals of metals facilitated by adsorption of surface-active substances, I, 84.
See also Lichtman, V. I.
- Rebsch, R., significance of ternary collisions in energy relations of discharges in gases, I, 214.
- Rechenberger, J. See Lintzel, W.
- Redemann, H., nuclear isomerism of strontium, I, 215.
- Reddy, D. V. S., determination of prothrombin time, III, 6.
- Redel, J. See Ruzicka, L.
- Redelings, E. See Fincke, M. L.
- Redemann, C. E., peroxides in isopropanol, II, 149.
and Icke, R. N., synthesis of *dl*-serine, II, 219.
- Redish, J. See Chasis, H.
- Redish, M. H. See Shapiro, S.
- Redlich, O., and Maranville, L. F., silver chloride electrode, I, 319.
and Nielsen, L. E., Raman spectrum and molecular vibrations of nitric and mono-deuteronic acids, I, 192.
- Redlin, A. J. See Gardner, L. U.
- Rednick, M. S., pathological study of significance of systolic murmur, III, 89.
- Reece, R. P., initiation and maintenance of lactation in dairy heifers by hormone administration, III, 811.
See also Leonard, S. L.
- Reed, A. C., tropical neurasthenia [relation to adrenal insufficiency], III, 22.
- Reed, A. F., relations of inferior laryngeal nerve to inferior thyroid artery, III, 297.
- Reed, C. I. See Meazer, R., and Richmond, J. J.
- Reed, G. See Chakravorty, P. N.
- Reed, G. B., and Orr, J. H., cultivation of anaerobes and oxidation-reduction (O/R) potentials, III, 688.
See also Stevenson, J. W.
- Reed, H. L. See Hellwig, C. A.
- Reed, H. S., relation of zinc to seed production, III, 853.
and Dufrenoy, J., pyridoxine and coacervates in plant cells, III, 446.
- Reed, J. M. See Williams, O. B.
- Reed, R. W., nitrate, nitrite, and indole reactions of gas gangrene anaerobes, III, 281.
- Reedy, J. H., and Biggers, E. D., nascent state, I, 184.
See also Preising, M. J.
- Reekie, R. D., water balance in pregnancy III 458.
- Rees, C. W., Bozicevich, J., Jones, F., and Reardon, L. V., complement-fixation test for amoebiasis with antigens prepared from *Endamoeba histolytica* grown with single species of bacteria, III, 522.

- Rees, C. W., Jacobs, L., Jones, F., and Reardon, L. V., problems encountered in growth of *Endamæba histolytica* in cultures developed by micro-isolation, III, 601.
- Rees, M. W. See Bailey, K., and Chibnall, A. C.
- Rees, W. J. See Wilde, W. T.
- Reese, A. B., precancerous melanosis and resulting malignant melanoma (cancerous melanosis) of conjunctiva and skin of lids, III, 798.
- Reese, H. H., significance of meteorological environment in aetiology of psychotic episodes, III, 468.
- Reese, J. D. See Wainman, P.
- Reeves, W. C. See Hammon, W. McD.
- Reforzo-Membrives, J., thyroid-inhibiting action of hypophyses of rats fed with thyroid, III, 737. Depression of metabolic rate by hypophysis of rats treated with thyroid, III, 808.
- Regamey, J. See Nicod, J. L.
- Regamey, R., anti-lytic action of heparin, and other coagulants, III, 458.
- Rege, A. V., Airan, J. W., and Shah, S. V., action of sulphuryl and benzenediazonium chlorides on aromatic thioethers, II, 228.
- Rege, N. D., and Devadatta, S. C., vitamins, minerals, carbohydrates, and proteins in Indian fruits, III, 494.
- Regeimbal, L. O. See Batjer, L. P.
- Rehberg, C. E., Fisher, C. H., and Smith, L. T., preparation of allyl and methylallyl methacrylates by thermal decomposition of allyl and methylallyl α -acetoxyisobutyrate, II, 291.
- See also Fisher, C. H.
- Rehbinder, P. See under Rebinder, P.
- Rehfuss, M. E. See Berk, J. E., and Pincus, I. J.
- Rehm, S., effect of electrolytes on intake of acid and basic dyes by plant cells, III, 71.
- Rehmann, A. See Singh, B.
- Reich, C., and Kolb, E. M., quantitative study of variations in multiple sternal marrow samples taken simultaneously, III, 301.
- Reich, H., choledochal denervation, III, 330. and Reichstein, T., bile acids and related substances. XXII. 11-Keto- and 11(a)-hydroxy-cholanic acid, II, 236.
- See also Lardon, A.
- Reich, N. E., use of flask as aid to tactile fremitus, III, 163. Portal system thrombosis occurring in portal hypertension, III, 231.
- See also Naumann, H. N.
- Reiche, E. See Westphal, O.
- Reichenbacher, E., origin of gravitational field, I, 215.
- Reichert, B., and Kuhn, W., stereoisomeric forms of additive compounds of alcohols and substituted 7-nitrostilbenes, II, 325.
- Reichert, F. L., injection of air for localisation of lesions in spinal canal: pneumomyelography, III, 309.
- Reichert, J. L. See Flax, L. J.
- Reichert, R. See Schöpf, C.
- Reichstein, T. See Alther, H. B., Burckhardt, V., Fuchs, H. G., Grandjean, P., Hegner, P., Koehlin, B., Lardon, A., Margot, A., Press, J., Reich, H., Rosenmund, H., Rosenthal, H., Sebeck, E. and Shoppee, C. W.
- Reid, A. C., hypermetropic miner, III, 385.
- Reid, C. C., and Sturtevant, J. M., attempted asymmetric syntheses employing choleic acids, II, 159.
- Reid, D. M., occurrence of crystals in skin of Amphipoda, III, 746.
- Reid, E. See Landgrebe, F. W.
- Reid, E. E. See Brighton, K. W., Brown, F. C., and Meadow, J. R.
- Reid, G., change in adenyl content of skeletal muscle after denervation, III, 163. Fasciculation and fibrillation in skeletal muscle; action of novocaine on neuromuscular mechanism, III, 163.
- Reid, J. See McNee, G. Z. I.
- Reid, J. B. See Knipe, G. F. G.
- Reid, M. See Siegel, M.
- Reid, M. E., protection of ascorbic acid during its extraction from plant tissues, III, 257.
- Reid, W. D., respiration as factor in circulation of blood, III, 229.
- Reid, W. L., cerebral herniation through the incisura tentorii, III, 467. Lumbar, ventricular, and cisternal puncture; indications and dangers, III, 875.
- Reid, W. M., nutritional requirements of fowl cestode *Raillietina cesticillus* (Molin) as demonstrated by short periods of starvation of the host, III, 400.
- Reid, W. P., effect of high electrostatic fields on vaporisation and resistance of molybdenum filaments, I, 254.
- Reider, R. F. See Saunders, H. C.
- Reifenstein, E. C., recognition and treatment of cardiac emergencies, III, 196.
- Reifenstein, E. C., jun. See Klinefelter, H. F., jun.
- Reilly, D., and Curtin, T. P., influence of halide concentration on metabolism of *Penicillium sclerotiorum*, Van Beyma, III, 429.
- See also Alberici, V. J.
- Reimann, F., reticular substance [of reticuloocytes] and haemoglobin formation [*in vitro*], III, 455. Reticulocytes and haemoglobin formation [in pernicious anaemia], III, 455.
- Reimann, H. A., infectious diseases, III, 69. and Eklund, C. M., pigments of *Micrococcus tetragenus*. VI. *Micrococcus tetragenus* infection, III, 436. and Koucky, R. W., meningitis caused by atypical Gram-negative cocci, III, 212.
- Reimann, S. P. See Morgan, R., and Summers, R. D.
- Reimer, M., preparation of phenylpropionic acid, II, 61.
- Reimers, F., analytical chemistry of the *p*-hydroxybenzoic esters, II, 348.
- Reims, A. O. See Buchman, E. R.
- Reindl, E. See Hieber, W.
- Reinecke, H. See Fischer, Hans.
- Reinecke, R. M., and Kendall, E. C., bio-assay of hormones of adrenal cortex which influence deposition of glycogen in liver, III, 391. Comparison of influence of crystalline hormones of adrenal cortex on deposition of glycogen in liver, III, 884. See also Samuels, L. T.
- Reinecke, E. P., chemical formation of highly active thyroprotein, III, 476. Effect of thyrolactin on milk production, metabolism, and growth, III, 476. and Turner, C. W., recovery of crystalline thyroxine from iodinated casein, II, 401. Recovery of *L*-thyroxine by direct acid hydrolysis of iodinated casein, II, 401. Thyroidal action of synthetic thyroprotein, III, 557.
- Turner, C. W., and Williamson, M. B., use of nembutal anaesthesia in milk secretion studies, III, 243. Effect of progressive iodination followed by incubation at high temperature on thyroidal activity of iodinated proteins, III, 389.
- See also Koger, M.
- Reiner, L., Evans, R. D., Irvine, J. W., jun., Lang, E. H., and Peacock, W., absorption rates of insulin, globin insulin, and protamine zinc insulin labelled with radioactive iodine, III, 910.
- Green, M., and Keston, A. S., absorption and distribution of insulin labelled with radioactive iodine, III, 559.
- Green, M., Lang, E. H., and Moore, D. H., electrophoretic components of globin, III, 271.
- Reiner, M. See Edelman, M. H., and Schick, B.
- Reinfeld, E. A. See Malischek, V. T.
- Reingold, I. M., Neuwelt, F., and Necheles, H., circulating time in man and dog as affected by fasting and meals, III, 376.
- Reinhard, E. G., parasitic castration of hermit crabs, III, 890.
- Reinhard, M. C., Goltz, H. L., and Schreiner, B. F., radiological treatment of cancer of cervix uteri, III, 54.
- Reinhard, O. See Spangler, H.
- Reinhardt, W. O. See Marx, W., and Morton, M. E.
- Reinhart, F. E. See Woodward, G. E.
- Reinhold, J. G. See Ferguson, L. K.
- Reinkober, O., physical properties of dilute solutions, I, 121.
- Reinstein, H. See McGavack, T. H.
- Reis, A., measurement of angular domains of reflexion in polycrystalline samples, I, 265.
- Reiser, R., and Fraps, G. S., determination of carotene oxidase in legume seeds, III, 518.
- Reisinger, J. A. See Mazer, M.
- Reisner, E. H., jun., morphology of erythrocytes in erythroblastosis foetalis, III, 711.
- Reiss, F., syringadenitis suppurativa tropicalis (a complication of lichen tropicus) [relation to vitamin-C], III, 902.
- Reiss, M., determination of haematoctrit values in wound shock, III, 861.
- MacLeod, L. D., and Golla, Y. M. L., role of adrenal cortex and anterior pituitary gland in induced secondary shock symptoms, III, 885.
- Reithel, F. J. See Roberts, E. C., and Van Bruggen, J. T.
- Reitler, R., and Btesh, S., hepato-lienal cirrhosis in Eastern Mediterranean countries, III, 485. and Marberg, K., bactericidal effect of tin and its application to treatment of typhoid fever, III, 591.
- Reitman, F., sodium amytal [treatment of mental patients], III, 345.
- Reitz, A. W. See Kohbrausch, K. W. F.
- Reitz, J. See Braun, J. von.
- Rekers, P. E., Abels, J. C., and Rhoads, C. P., metabolic studies in patients with gastrointestinal cancer; fat metabolism, III, 814. See also Abels, J. C.
- Remick, A. E., semiquantitative extension of electronic theory of the English school, II, 77.
- Remington, J. W., Parkins, W. M., and Hays, H. W., influence of prolonged electrolyte deprivation and final restoration on fluid intake, balance, and distribution, III, 580. See also Swingle, W. W.
- Remington, R. E., and Harris, P. L., fat metabolism and goitre, III, 414.
- Harris, P. L., and Smith, C. L., relationship between vitamin-A and iodine metabolism in the rat, III, 497.
- Remy, H., principles for nomenclature of inorganic compounds, I, 22.
- Rendall, G. R., dispersion of sound velocity in alcohols, I, 148.
- Rendle-Short, C., *Clostridium welchii* infection of uterus complicating pregnancy, III, 281.
- Rennebaum, E. H. See Martin, G. J.
- Renneberg, W. See Bonhoeffer, K. F.
- Rennie, J. B., tests of hepatic efficiency, III, 247. Hippuric acid synthesis as test of hepatic efficiency, III, 247. Modified levulose (fructose) tolerance test compared with hippuric acid synthesis test of hepatic efficiency, III, 484.
- Renshaw, B., effects of presynaptic volleys on spread of impulses over soma of the motoneurone, III, 14. Reflex discharges in branches of crural nerve, III, 794.
- Renshaw, R. J. F., review of 938 gastroscopic examinations, III, 123.
- Clark, G. E., and Forsythe, J. R., analysis of 938 gastroscopic examinations, III, 244.
- Rentschler, H. C., and Nagy, R., bactericidal action of ultra-violet radiation on air-borne organisms, III, 55.
- Renz, J. See Stoll, A.
- Repetto, O. M., and Modern, F., oligodynamic action of silver, III, 835.
- Retan, G. M., treatment of acute encephalitis by intravenous injection of hypotonic saline solution, III, 164.
- Rettberg, I. See Weygand, C.

- Rettger, L. F. See Crecelius, H. G., Johnson, E. A., Lewis, K. H., Osterman, E., and Porter, J. R.
- Reuter, M. A. See Stimson, M. M.
- Renter, M. J., and Becker, S. W., colloid degeneration (collagen degeneration) of skin, III, 400.
- Renterskiold, J. A., β -sulphinopropionic acid and related compounds, II, 150.
- Renther, H. See Muller, F.
- Renther, W., and Burrows, F. W., effect of manganese sulphate on photosynthetic activity of fenchel tung foliage, III, 538.
- See also Boynton, D.
- Rey, A., extensive destruction of cerebral cortex in newborn rat: operative technique and survival time, III, 552.
- Rey, E. See Ruzicka, L.
- Reyersbach, G. See Kuttner, A. G.
- Reyerson, L. H., and Cines, M. R., adsorption of propane and propylene by silica gel and metallised silica gel, I, 123.
- Reynolds, A. E., reproductive cycle in male skinks, III, 887.
- Reynolds, A. K., convenient single-unit perfusion apparatus, III, 615.
- Reynolds, D. D. See Talley, E. A.
- Reynolds, D. L., granitisation of hornselsed sediments in Newry granodiorite of Goraghwood Quarry, Co. Armagh, I, 107.
- Reynolds, F. E., cancer, III, 128.
- Reynolds, F. H. K., and Pollard, M., employment of rickettsial vaccine for antigen diagnostic complement-fixation test, III, 925.
- Reynolds, F. W., Mohr, C. F., and Moore, J. E., syphilis, III, 526.
- Reynolds, J. M., effect of parental feeding on rate of development and mortality of *Tribolium destructor*, Uyttenboogaart (Coleoptera, Tenebrionidae), III, 400.
- Reynolds, M. B., improved Kundt's tube, I, 267.
- Reynolds, S. R. M., and Di Palma, J. R., dermavascular changes during menstrual cycle: failure to find cyclic variation in contractile or dilating capacity of skin capillaries, III, 28.
- Di Palma, J. R., Foster, F. I., Hamilton, J. B., and Hubert, G. R., dermavascular actions of steroid hormones in castrate, eunuchoid, and normal men, III, 33.
- and Ginsburg, N., micro-determination of a Δ^4 -3-ketosteroid (progesterone) obtained from small volumes of serum, III, 32.
- Reynolds, W. B. See Kharasch, M. S.
- Reynolds, W. J. See Kulchar, G. V.
- Rezek, A. See Prelog, V., and Weber, K.
- Resende, C., and Campos, F. A. de M., cataract in rats fed a low-protein diet, III, 732.
- Reznek, S., semi-micro-determination of silver, I, 185.
- Reznikoff, P. See Kauer, G. L., jun.
- Rheinberger, M. B., and Davidoff, L. M., electroencephalogram [in posterior fossa tumours], III, 467.
- Rheinboldt, H., thermal analysis of binary systems, I, 308.
- and Mathias, S., isomorphous replaceability of chalkogens in organic compounds, II, 263.
- Rhian, M., Evans, R. J., and St. John, J. L., choline content of [poultry] feeds, III, 495.
- and Moxon, A. L., chronic selenium poisoning in dogs and its prevention by arsenic, III, 835.
- Rhines, R. See Windle, W. F.
- Rhoades, H. E., adaptive enzymes of strains of yeasts, III, 274.
- Rhoades, M. M., and Vilkomerson, H., anaphase movements of chromosomes, III, 157.
- Rhoads, C. P. See Abels, J. C., Dobriner, K., Klopp, C. T., Rekers, P. E., and Sugiura, K.
- Rhoads, P. S., and Afremow, M. E., streptococcal and pneumococcal infections of nose and throat in young adults, III, 607.
- See also Kilgore, H. H.
- Rhodehamel, H. W., jun., and Degering, E. F., bacteriostatic properties of derivatives of thiophen, III, 60.
- Rhodes, P. H., and Durbin, E., coarctation of aorta in childhood, III, 366.
- Rhorer, A., steel paraffin embedding boat, III, 709.
- Rhorer, B. A., measuring red blood cells, III, 4. One-minute bed-side prothrombin method, III, 6.
- Rhyn, E., and Abelin, I., dietary protein minimum, III, 661.
- Riabitschikov, D. I., oxidation of thiosulphate compounds of platinum, I, 97. Reactions with thiosulphate as a method for determining the nature of isomerism of platinum complex compounds. I, I, 97.
- Rial, J. See Slater, E. C.
- Ricci, J. E., and Davis, T. W., empirical relation between solubility of slightly soluble electrolytes and dielectric constant of the solvent, I, 275.
- and Messe, G. J., solubility of potassium and zinc iodates in dioxan-water mixtures; effect of sorting of solvent molecules, I, 59.
- and Weltman, C., isotherms of system sodium chromate-sodium chlorate-water, I, 129.
- See also Feldman, M. H., and Selikson, B.
- Riccoboni, L., [ultra-violet] absorption spectra of organometallic compounds of tin and lead, I, 30. Polarography of organometallic compounds. I, I, 131.
- See also Semerano, G.
- Rice, C. N. See Nahinsky, P.
- Rice, F. O. See Kossiakoff, A.
- Rice, K. K., and Richter, C. P., increased salt and water intake of normal rats treated with deoxycorticosterone acetate, III, 884.
- See also Richter, C. P.
- Rice, O. K., partition function of a gas of hard elastic spheres, I, 9. Partition function of a simple liquid, I, 10. Effect of intermittent light on a chain reaction with bimolecular and unimolecular chain-breaking steps, I, 21.
- See also Cannon, C. V., and Haden, W. L., jun.
- Rich, E. See Himwich, H. E.
- Rich, J. L., physiographic setting of nitrate deposits of Tarapaca, Chile; its bearing on problem of origin and concentration, I, 140.
- Richard, E. W., simple filtration unit, III, 703.
- Richard, G., acetylphenylcarbinol and benzoylmethylcarbinol; simultaneous formation starting from β -chloro- α -phenylpropan- α -one or from α -chloro- α -phenylpropan- β -one; their identification, II, 134.
- Richard-Foy, R. See Leprince-Ringuet, L.
- Richards, A. G., jun., Anderson, T. F., and Hance, R. T., microtome technique for electron microscopy, III, 369.
- See also Anderson, T. F.
- Richards, A. V. See Appleman, D.
- Richards, C. H., Wolf, S., and Wolf, H. G., measurement and recording of gastroduodenal blood flow in man by thermal gradientometer, III, 305.
- Richards, G. V. See Unna, K.
- Richards, L. G., otogenic complications; discussion of literature for 1941, III, 317.
- Richards, M. B., supplements of calcium and vitamin-B₁ in bread, III, 499.
- Richards, R. K., and Steggerda, R. F., dicumarol [3,3'-methylenebis-(4-hydroxycoumarin)] in rats with impaired liver or kidney function, III, 865.
- Richards, R. L., vasomotor disturbances in hand after injuries of peripheral nerves, III, 875.
- See also Learmonth, J. R.
- Richards, T. W. See Robinow, M.
- Richards, V., Giberson, A. F., and King, D., giant cell tumours of patella, III, 572.
- and King, D., chordoma, III, 493.
- Richardson, E. See Goldblatt, H.
- Richardson, E. G., turbidity measurement by optical means, I, 70.
- Richardson, G. L. See Rahn, O.
- Richardson, G. O., atherosclerosis of main renal arterie in essential hypertension, III, 231.
- Richardson, H. L., Kennedy, J. C., and West, E. S., diuretic effect of combination of salyrgan and intravenous sorbitol or sucrose, III, 567.
- Richardson, J. E. See Brown, A. P.
- Richardson, J. R., anatomy and physiology of ear, III, 555.
- Richardson, J. S., gynaecomastia, III, 741.
- Richardson, K. C. See Eggleton, M. G.
- Richardson, L. R., Hogan, A. G., and Karrasch, R. J., liver concentrate as a source of unrecognised vitamins required by the chick, III, 411.
- Richardson, N. See Dacie, J. V.
- Richman, M. J., and Abarbanel, A. R., effect of estradiol and diethylstilboestrol on atrophic human buccal mucosa; use of oestrogens in management of senile gingivitis, III, 649.
- Richmond, D. A. See Kitchin, I. D.
- Richmond, E. L., haematuria following heparin, III, 84.
- Richmond, J. J., Reed, C. I., Shaughnessy, H. J., and Michael, V., effect of staphylococcus enterotoxin on isolated rabbit gut segments, III, 437.
- Richmond, W. E., inesite, I, 170.
- and Fleischer, M., rancieite, a valid mineral species, I, 290.
- See also Palache, C.
- Richter, C. P., decreased carbohydrate appetite of adrenalectomised rats, III, 646.
- and Clisby, K. H., greying of hair produced by ingestion of phenylthiocarbamide, III, 679.
- and Rice, K. K., thiamin hydrochloride and energy value of glucose studied in rats by single food choice method, III, 752.
- and Whelan, F., sweat gland responses to sympathetic stimulation studied by galvanic skin reflex method, III, 798.
- See also Rice, K. K.
- Richter, D., and Croft, P. G., blood esterases, III, 56. Serum-choline-esterase and muscular exercise, III, 88.
- and Lee, M., blood-amines, III, 716.
- See also Emmens, C. W.
- Richter, F., colorimetric determination of fluorine in simple and complex fluorides by means of zirconium-alizarin lake. I. and II, I, 98.
- See also Bredereck, H.
- Richter, G., velocity distribution of field electrons, I, 78.
- Richter, I. B. See Levin, I. M.
- Richtmyer, N. K., and Hudson, C. S., ring structure of polygalitol, II, 150. Mutarotation of β -D-altrose, II, 220.
- See also Adams, M., and Montgomery, (Miss) E. M.
- Richterbain, H. See Freudenberg, K.
- Rickerts, H. T. See Goldner, M. G.
- Rickford, R. B. K., and Whapham, E. M., benign ovarian neoplasms and post-menopausal haemorrhage, III, 242.
- Riddell, W. J. B., classification of eye-colour, III, 79. Uncomplicated hereditary megalocornea, III, 156.
- Riddle, O., cyclic changes in blood-calcium, -phosphorus, and -fat in relation to egg-laying and oestrogen production, III, 327.
- Lahr, E. L., and Bates, R. W., role of hormones in initiation of maternal behaviour in rats, III, 478.
- See also Bates, R. W., Lahr, E. L., and Miller, Richard A.
- Ridge, M. J. See Anderson, J. S.
- Riding, D. See Davis, L. J.
- Ridland, G. C., use of Geiger-Müller counter in search for pitchblende-bearing veins at Great Bear Lake, Canada, I, 287.
- Riesomer, J. L., Stauffer, D. A., Glick, F., and Lambert, F., preparation of substituted mandelic acids and their bacteriological effects. III, II, 32.

- Rieche, A., and Koch, K., ethyl peroxides. XIV. Oxidation of diisopropyl ether, II, 79. and Rudolph, W., dinaphthones, II, 234.
- Rudolph, W., and Seifert, R., dinaphthylene-dimine and dehydronaphthylene-dimine, II, 244.
- Riedel, M. See Baumgarten, P.
- Riedel, P. A. See Whittemore, W. L.
- Riefstahl, K. See Schöpf, C.
- Riegel, B., Beiswanger, J., and Lanzl, G., vacuum sublimation and molecular distillation apparatus, I, 267.
- Beiswanger, J., and Meyer, E. W., oxidative degradation of *i*-stigmasteryl methyl ether, II, 199.
- Dunker, M. F. W., and Thomas, McC. J., preparation and dehydration of diphenyl-6-methoxy-*i*-norcholesterolcarbinol, II, 40.
- Gold, M. H., and Kubico, M. A., synthesis of 2-substituted phenanthrenes, II, 34. See also King, L. C., and Schwenk, E.
- Rieger, M. See Price, C. C.
- Rieke, C. A. See Mulliken, R. S.
- Rieke, F. E., "arc flash" conjunctivitis from electric welding arc, III, 798.
- Rieke, F. F., and Gaffron, H., flash saturation and reaction periods in photosynthesis, I, 281.
- Riley, L. A. See Mulvey, B. E.
- Riemann, W., 3rd. See Beyer, G. L., and McComas, W. H., jun.
- Riemann, U. See Windaus, A.
- Riemann, W. See Brewster, E. L.
- Rienäcker, G., and Bade, H., catalytic investigation on alloys. VIII. Properties of copper-nickel alloys in catalysis of decomposition of formic acid vapour, I, 260.
- and Hildebrandt, H., catalytic investigation on alloys. IX. Decomposition of formic acid vapour on copper-platinum mixed crystals in relation to composition and ordering of the alloys, I, 260.
- Riesner, T. W. See Bruson, H. A.
- Riesse, B. See Berman, L.
- Riethmann, J. See Perret, A.
- Rietz, E., and Maclay, W. D., preparation of *D*-galacturonic acid from pectin, II, 293.
- Rieveschl, G., jun. See Ray, F. E.
- Rigdon, R. H., effect of histamine phosphate on capillary permeability and inflammation, III, 92. Death in acute *Plasmodium falciparum* infection [resemblance to shock], III, 204. Local lesions produced in mice by staphylococcus toxin and by toxin- and non-toxin-producing strains, III, 284. Capillary permeability and inflammation in skin of rabbits given adrenaline, III, 461. Effect of ethyl alcohol intoxication on development of local inflammatory reactions in rabbit, III, 788. Capillary permeability in inflammation areas produced by staphylococci, III, 868.
- Ewing, F., and Tate, A., effects of infra-red irradiation on tissues of the rabbit, III, 680. See also Haynes, A., and Wilson, H.
- Riggs, B. C., accurate cheap constant-temperature water-bath, I, 139.
- Rigos, F. J., Röntgen irradiation in acute peritonitis and its effect on cells of normal peritoneal fluid [in guinea-pig], III, 484.
- Riker, A. J. See Henry, B. W., and McIntire, F. C.
- Riker, W. F., and Gold, Harry, pharmacology of sodium glycollate and toxicity of glycine, III, 139.
- Riley, E. C., hazards in use of chlorinated naphthalene and diphenyl, III, 595.
- Riley, E. G., effect of vitamin-A deficiency in white rat on resistance to *Nippostrongylus muris*, III, 752.
- Riley, G. M., and Hammond, J. C., androgenic substance in faeces from cattle demonstrated by tests on chicks, III, 481.
- Rimington, C., formation of porphyrin by autolyzing yeast and by yeast press juice, III, 520. Fluorescence comparator and its application to determination of porphyrin, III, 540. Determination of uroporphyrin in pathological urines, III, 817.
- Rimoldi, H. See Guttmann, E.
- Rimpau, W., agglutination and lysis of *Leptospira grippo-typosa*, III, 146.
- Rinderknecht, H. See Bergel, F.
- Rinehart, R. E. See West, E. S.
- Ring, G. C., function of thyroid in maintaining heat production, III, 644.
- Ringk, W. F., and Epstein, E., preparation of aminobenzoic acid esters of substituted monoalkylamino-alcohols, II, 300.
- Rink, R. See Steinberg, H. H.
- Rinkel, M. See Myerson, A.
- Rinn, H. W. See Frevel, L. K.
- Rinzler, S. H. See Hertz, J. J., and Travell, J.
- Riopelle, J. L. See Masson, P.
- Riordan, J. T., detection of tubercle bacillus polysaccharides in infected material, III, 358.
- Riordan, T. J., Gellis, S., and Rubinowitz, A. M., unusual sites of lesions in pellagra, III, 409.
- Ripan, R., volumetric determination of lead as an insoluble compound using diphenylcarbazone as indicator, I, 24. Reaction of selenic acid with silver ion and consequent separation of selenic from sulphuric acid, I, 314.
- Rippere, R. E., and La Mer, V. K., volatile borates of polyhydric alcohols and the activation of boric acid, II, 290.
- Ripps, M. L. See Vollmer, Hubert.
- Risman, J. E. F. See Sagall, E. L.
- Rishkov, V. L., and Smirnova, V. A., liquid crystals of virus of tobacco mosaic, *Nicotiana* virus 1, Allard, III, 288.
- Riskind, L. A., and Greene, H. H., renal torsion with ischaemia causing hypertension, III, 306.
- Risley, E. A. See Kazal, L. A.
- Risteen, W. A. See Akelaitis, A. J.
- Ritchie, C. M. See Kosterlitz, H. W.
- Ritchie, H. P., hypospadias, III, 122.
- Ritchie, M., and Taylor, D., photo-combination of hydrogen and chlorine in oxygen-free systems, I, 40.
- Ritchie, T. F. See Grant, J.
- Rittenberg, D., applications of mass spectrometric analysis to chemistry, I, 72. See also Bloch, K., Herbst, R. M., and Hoberman, H. D.
- Ritter, J. S., and Shifrin, L. A., renal sympathectomy in nephralgia, III, 165.
- Ritter, M. See Jung, A.
- Rittershausen, E. P. See De Gray, R. J.
- Rittner, E. S. See Schumb, W. C.
- Ritvo, M., Houghton, J. D., and McDonald, E. J., cancer in childhood, III, 184. See also Myerson, A.
- Rivera, R. E. See West, H. D.
- Rivers, T. M. See Smadel, J. E.
- Rivin, M. A., influence of temperature on detonation limit of hydrogen-air mixtures, I, I, 183.
- Roach, F. E., typical stellar spectra with high dispersion. II. Spectrum of γ -Cygni, I, 109. and Phillips, J. G., Rowland intensity scale, I, 109. Abundance of neutral iron atoms in the sun, I, 109.
- Roach, R. W. See Stableforth, A. W.
- Robb, J. S., Dooley, M. S., and Robb, R. C., displacement of RST segment by potassium chloride, III, 549. See also Robb, R. C.
- Robb, R. C., and Robb, J. S., experimental bundle branch block after ablation of one or both ventricles, III, 8. See also Robb, J. S.
- Robb, T. P. See Copley, A. L.
- Robb, W. See Smith, A. M.
- Robb-Smith, A. H. T. See Carleton, A.
- Robbie, W. A., and Gibson, R. E., clinical determination of urinary 17-ketosteroids, III, 656.
- Robbins, E. B. See Chen, K. K.
- Robbins, M. H. See Crowe, S. J.
- Robbins, M. L. See Parr, L. W.
- Robbins, R. C. See Todhunter, E. N.
- Robbins, W. J., factor Z, III, 59. Pyrimidine analogue of aneurin and growth of fungi, III, 59.
- and Ma, R., biotin and growth of *Fusarium avenaceum*, III, 771. Pseudopyridoxine and fungi, III, 771.
- Roberts, A. See Elliott, L. G.
- Roberts, E., and Christman, A. A., influence of lactose and its hydrolysis products on absorption of calcium [from gut], III, 125.
- Roberts, E. C., Cain, C. K., Muir, R. D., Reithel, F. J., Gaby, W. L., Van Bruggen, J. T., Homan, D. M., Katzwill, P. A., Jones, L. R., and Doisy, E. A., penicillin B, an antibacterial substance from *Penicillium notatum*, III, 353.
- and Jones, L. R., detection of minute amounts of serum antibody by agglutination of antigen-coated bacterial cells, III, 611. Agglutination of encephalitis virus-coated bacteria by virus antisera, III, 611. See also Van Bruggen, J. T.
- Roberts, G. H. See Hampil, B.
- Roberts, H. M., and Bartley, M. W., hydro-thermal replacement in deep-seated iron ore deposits of Lake Superior region, I, 243.
- Roberts, J. A. F., blood group frequencies in North Wales, III, 543.
- Roberts, J. D., Young, W. G., and Winstein, S., allylic rearrangements. XIII. Kinetics and mechanisms of conversion of crotyl and methylvinylcarbonyl chlorides into acetates and ethyl ethers, II, 21.
- Roberts, J. L., and Baldwin, I. L., spore formation by *Bacillus subtilis* in peptone solutions altered by treatment with activated charcoal, III, 437.
- Roberts, L. J. See Brenner, S., Johnston, F. A., Oldham, H., and Roberts, V. M.
- Roberts, M. E., and Ospeck, A. G., pertussis toxin, III, 436.
- Roberts, R. C. See Mallach, J. F.
- Roberts, R. J. See Yates, R. G.
- Roberts, R. M. See Haugaard, R.
- Roberts, S. E., nutritional deficiencies in otolaryngology, III, 21.
- Roberts, V. M., and Roberts, L. J., ascorbic acid requirements of children of early school age, III, 412.
- Robertson, A. See Herington, E. F. G.
- Robertson, C. K., lung cancer and early diagnosis, III, 572.
- Robertson, F., sphalerite-dolomite orientation relations, I, 290.
- Robertson, G. J. See Myers, W. H.
- Robertson, G. W. See Yudkin,
- Robertson, H. F., experimental coronary sinus occlusion, III, 789.
- Robertson, J. A., magnetic moments and vibratory electron, I, 141.
- Robertson, J. See Buchanan, C.
- Robertson, J. A. See Fuson, R. C.
- Robertson, J. D., inorganic composition of body fluids of invertebrates, III, 181. Calcium metabolism and problems of nutrition, III, 493. White, national, or wholemeal bread, III, 573, 661. See also Beaumont, G. E.
- Robertson, M. E., apparent stimulative effect on mould growth of a mercurial preparation, III, 429.
- Robertson, N. C., and Pease, R. N., heat of dissociation of cyanogen, I, 19.
- Robertson, O. H., inception of pneumonia and its bearing on prevention, III, 849. See also Loosli, C. G.
- Robertson, P. W., De la Mare, P. B. D., and Johnston, W. T. G., kinetics of aromatic halogenation. I. Bromination, I, 231. See also De la Mare, P. B. D.
- Robertson, R. R. See Murray, J. G.
- Robertson, W. v. B., preparation of sodium pyruvate, II, 81. See also Kahler, H., and Morris, H. P.
- Robeson, C. D., and Baxter, J. G., *a*-tocopherol, a natural antioxidant in a fish liver oil, III, 668. See also Baxter, J. G.

- Robeson, J. M. See Jordan, H. E.
 Robey, R. F., maleic anhydride as reagent for conjugated diolefines, II, 152.
 Robillard, E. See Beaulieu, R., and Blais, J. A.
 Robinow, M., Richards, T. W., and Anderson, M., eruption of deciduous teeth, III, 1.
 Robins, S. See Nelson, D.
 Robins, S. A. See Naterman, H. L.
 Robins, S. H. See Crabtree, E. G.
 Robinson, Abner. See Beach, E. F.
 Robinson, Arthur. See Bullowa, J. G. M.
 Robinson, A. L. See Nathan, C. C., Silverblatt, (Miss) E., and Wallace, W. E.
 Robinson, C. S., Luckey, H., and Mills, H., pH of contents of small intestine, III, 396.
 Robinson, C. S., jun., rate of crystal growth in drawn tungsten wires as a function of temperature, I, 178.
 Robinson, D. See Wahl, H. R.
 Robinson, E. J., and Crossley, M. L., metabolism of (1)-N-acylsulphanilamides in dog, III, 758.
 Robinson, F. See Schutz, E. W.
 Robinson, F. A., and Bacharach, A. L., chromatography, I, 41.
 See also Page, J. E.
 Robinson, G. G. See Baxter, E. W., and Woodbury, R. A.
 Robinson, G. M. See Medawar, P. B.
 Robinson, H. J., toxicity and efficacy of penicillin, III, 581.
 and Graessle, O., *in-vitro* and *in-vivo* studies on gramicidin, tyrothricin, and tyrocidine, III, 510. Toxicity of tannic acid, III, 591.
 Robinson, H. M. See Ellis, F. A.
 Robinson, H. R., Rutherford: life and work to 1919, I, 168.
 Robinson, J. R. See Hodgson, A. R.
 Robinson, L. F., Camp, M. N., and Chamberlain, E. C., hydrogen sulphide gas poisoning [in workers in oolithic limestone in Florida], III, 594.
 Robinson, M., failing lactation, III, 741.
 Robinson, (Sir) R. See Abraham, E. P., Cornforth, J. W., Cornforth, (Mrs) R. H., Hudson, B. J. F., and Medawar, P. B.
 Robinson, S. See Roughton, F. J. W.
 Robinson, W. D., Janney, J. H., and Grande, F., evaluation of nutritional status of a population group in Madrid, Spain, during the summer of 1941, III, 493.
 Robison, G. See Waring, C. E.
 Robison, W. L. See Edgington, B. H.
 Roblin, R. O., jun. See Anderson, G. W., Bell, P. H., and English, J. P.
 Roboz, E. See Lepkovsky, S.
 Robscheit-Robbins, F. S., Miller, L. L., and Whipple, G. H., haemoglobin and plasma-protein; simultaneous production during continued bleeding as influenced by amino-acids, plasma, haemoglobin, and digests of serum, haemoglobin, and casein, III, 456.
 See also Whipple, G. H.
 Robson, G. B., Cutting, W. C., and Gray, H., effect of vitamin-B complex on diabetes mellitus, III, 129.
 See also Cutting, W. C.
 Robson, J. M., control of sepsis, III, 761.
 and Scott, G. I., production and treatment of experimental pneumococcal hypopyon ulcers in rabbit, III, 553. Chemotherapy in experimental eye lesions, III, 731.
 Roby, C. C. See Pfeiffer, C.
 Rocca, F., oestrogenic substances in treatment of pigmented areas, III, 30.
 Rocha, A. See Magalhaes, B. F.
 Rocha e Silva, M., and Andrade, S. O., histamine and proteolytic enzymes; liberation of histamine by papain, III, 843.
 See also Dragstedt, C. A., and Eichbaum, F.
 Rochar, G. F., corneal lesions in dysostosis multiplex (gargoylism, Hurler's disease), III, 103.
 Roche, C. F., Stannus, D. G., and Isberg, E. M., erythrocyte sedimentation rate determinations on normal youths, III, 301.
 Roche, E. H., fatal insulin hypoglycaemic coma, III, 391.
 Rochester, G. D., and Jánossy, L., preparation and efficiency of fast Geiger-Müller counter, I, 166.
 See also Jánossy, L.
 Rochford, J. D., and Broadbent, B. T., ethyl chloride analgesia, III, 676.
 Rochlin, I. See Denstedt, O. F.
 Rochlina, M. L., and Bodrova, A. A., interactions of vitamins and hormones (sensitising effect of prolactin on the female sex apparatus), III, 325.
 Rochow, T. G. See Burton, C. J.
 Rock, J., Bartlett, M. K., Gauld, A. G., and Rutherford, R. N., effect of subcastrative Röntgen therapy on ovarian physiology, III, 171.
 Rockwell, G. E., milk sensitisation, III, 531.
 Rodahl, K., and Moore, T., vitamin-A content and toxicity of bear and seal liver, III, 663.
 Rodaniche, E. C., and Kirsner, J. B., effect of sulphanilamide compounds on growth of *Entamoeba histolytica* in culture, III, 429.
 and Palmer, W. L., action of tyrothricin on faecal streptococci *in vitro* and *in vivo*, III, 775.
 Rodbard, S. See Megibow, R. S.
 Rodden, C. J., Kuck, J. A., Benedetti-Pichler, A. A., Corwin, A., and Huffman, E. W. D., reproducibility of weighings made on microchemical balances, I, 239.
 Rodenberg, A. H. See Foshay, L.
 Rodman, F. B., and Wright, H. N., determination of arsenic in organic arsenical compounds, II, 52.
 Rodnick, E. H. See Freeman, H.
 Rodriguez, P. M. See Talbot, N. B.
 Rodwell, A. W. See Turner, A. W.
 Rodwell, F. See Hickling, A.
 Rodzevitsch, P. V. See Raines, M. M.
 Roe, C. P., and Ewart, R. H., electrophoretic study of proteins in rubber latex serum, II, 115.
 Roe, E. M. F. See Burrows, H.
 Roe, J. H., and Kuether, C. A., determination of ascorbic acid in whole blood and urine through the 2,4-dinitrophenylhydrazine derivative of dehydroascorbic acid, III, 578.
 See also Goldstein, N. P.
 Roebuck, J. R., laboratory liquid air storage, I, 210.
 Roedig, A. See Fischer, F. G.
 Rögner, H., autodiffusion of liquids, I, 224.
 See also Jost, W.
 Roen, P. R. See Higgins, C. C.
 Roepke, M. H., acetonæmia in cattle, III, 87.
 See also Stearns, T. W.
 Roepke, R. R., and Baldes, E. J., osmotic properties of erythrocytes, III, 4.
 Rosch, J., analytical study of normal eye-movements, III, 165.
 Röschl, S., practical colour measurement, I, 318.
 Roessli, H., gastrogenic polyneuritis and tetany, III, 744.
 Rössle, R., focal infection, III, 277.
 Rötter, G. See Zetsche, F.
 Roever, A. See Hellwege, K. H.
 Rogan, J. J. See Deeney, J.
 Rogan, A. S., maintenance treatment with digitalis, III, 675.
 Rogers, A. F., order of silicates in systematic mineralogy, I, 290.
 and Sperisen, F. J., American synthetic emerald, I, 188.
 Rogers, C. H. See Youngken, H. W., jun.
 Rogers, E. F. H. See Dublin, T. D.
 Rogers, E. S., Bahlke, A. M., and Harris, A. H., jun., epidemiology of pneumococcus pneumonia, III, 690.
 Rogers, F. T., jun., and Horton, C. W., theory of electrostatic β-particle energy spectrograph, III, I, 287.
 Rogers, H. J. See McClean, D.
 Rogers, H. T., availability of organic phosphorus to plants and their dephosphorylation by exo-enzyme systems of growing roots and by soil catalysts, III, 535.
 Rogers, H. T., Pearson, R. W., and Pierre, W. H., source and phosphatase activity of exoenzyme systems of maize and tomato roots, III, 700.
 Rogers, L. B., and Caley, E. R., selective reagent for lithium; application to volumetric determination of lithium in presence of potassium and sodium, I, 184.
 See also Caley, E. R.
 Rogers, W. P., metabolism of trichinised rats during early phase of disease, III, 71.
 Digestion in parasitic nematodes. I. Digestion of carbohydrates. II. Digestion of fats. III. Digestion of proteins, III, 125, 329.
 Occurrence of zinc and other metals in intestines of *Strongylus* spp., III, 329.
 Haematological studies on gut contents of nematode and trematode parasites, III, 484.
 Roge, A. J., case of sympathetic heterochromia acquired in adult age, III, 800.
 Roginski, S. Z., active contact catalysts, their formation and nature. I. Nature of the active surface, I, 65. Theory of preparation of catalysts; role of free energy, I, 158.
 Rogler, E. See Lux, H.
 Rogosa, M., synthesis of riboflavin by lactose-fermenting yeasts, III, 916.
 Rogowski, F., electron interferometric measurement of free molecules; isomerism of the nitrogen atom, I, 221.
 Rohan, J. J. See Carmody, W. R.
 Rohmer, R., preparation and properties of beryllium, I, 134.
 See also Hackspill, L.
 Rohner, J. See Ruggli, P.
 Rohr, E. See Endres, G.
 Rohrer, A. B., and Sherman, H. C., bodily store of vitamin-A as influenced by age and by food, III, 663.
 Rohrer, C. S., Lanford, O. E., and Kiehl, S. J., heterogeneous equilibria in aqueous solutions of sulphates of quadrivalent vanadium at 30°, I, 129.
 Rokade, R. K., Khabaria, R. H., and Kapadia, M. R., determination of space-groups of crystals of diphenylbenzamide and anisic acid, I, 118.
 Rolt, D. See Heinbecker, P., and White, H. L.
 Rolfsen, F. B. See Fenster, C. J.
 Roll, A. See Schmid, Gerhard.
 Rollett, A., and Maurer-Stroh, H., preparation of unsaturated hydrocarbons [from alcohols] by silica gel, II, 289.
 Rollinson, C. L., and Bailar, J. C., jun., chromammines. II. Preparation of luteosalts, I, 160.
 Rolnick, H. C. See Sabin, S. S.
 Romanes, G. J., spinal cord in case of congenital absence of right limb below knee, III, 14.
 Romano, J. See Stead, E. A., jun., and Warren, J. V.
 Romanoff, A. L., growth of avian ovum, III, 618. Permeability of birds' eggshell, III, 887. Morphological and physicochemical differentiation in various layers of avian albumin, III, 887.
 and Bless, A. A., effect of X-ray stimulation on bio-electric potentials of avian egg, III, 26.
 Romberger, F. T. See Haas, H. B.
 Rome, M. N. See Fanti, P.
 Romer, A. S., development of tetrapod limb musculature-thigh of *Lacerta*, III, 153.
 and Edinger, T., endocranial casts and brains of living and fossil amphibia, III, 857.
 Romm, I. I. See Guliaeva, L. A., and Varov, A. A.
 Rompe, R., and Schulz, P., characteristic pressure-widening of mercury lines, I, 1.
 See also Birus, K., and Moglich, F.
 Ronan, A. K. See Stevens, M. E. T.
 Rones, B., nutritional defects and eyes, III, 235.
 Rooney, H. B., effect of temperature and light on oxygen consumption and rate of development of *Heliosoma*, III, 767.
 Ronge, F. See Bergmann, Ludwig.

- Roniger, H. See Plattner, P. A.
 Ronnebeck, H. R., recording microphotometer for examination of X-ray diffraction films, I, 318.
 Ronzio, A. R. See Waugh, R. C.
 Rocksby, H. P., X-ray analysis. I. Index of X-ray diffraction data. II. Non-Laue diffuse reflexions in X-ray diffraction patterns. III. Examination of fine structural characteristics by X-ray powder methods. IV. Absolute accuracy of X-ray wave-lengths, I, 299.
 Rooney, H. M. See Boland, E. W.
 Roosen-Runge, C. See Windaus, A.
 Root, C. M. See Phair, J. J.
 Root, G. T. See Wakim, K. G.
 Root, H. F., and Styron, C. W., insulin hypoglycaemia and vascular accidents in diabetes mellitus, III, 559.
 See also Joslin, E. P., and Styron, C. W.
 Root, J. C., benign gastric tumour, III, 129.
 Root, M. B. See Branham, S. E.
 Root, W. S. See Keil, F. C., jun.
 Roots, E., stimulation of growth of anaerobes on Zeissler's blood agar by addition of liver extract, III, 145.
 Rooyen, C. E. van, and Bearcroft, W. G. C., typhus rickettsial agglutination tests in Middle East Forces and Egypt, III, 777.
 Rorschach, vitamin content of fruit and vegetable preserves, III, 752.
 Rosahn, P. D., and Black-Schaffer, B., incidence of syphilis in autopsies on adults, III, 923.
 See also Casey, A. E.
 Rose, B., alterations in blood-histamine in patients with allergic disease, III, 361.
 Rose, F. A. See Hayman, J. M., jun.
 Rose, H. M. See Culbertson, J. T.
 Rose, J. E., thalamus of sheep: cellular and fibrous structure, III, 637.
 Rose, R. C., dialysis, I, 167.
 Rose, S. B., importance of carbon dioxide in diagnostic bacteriology with observations on a carbon dioxide (capnecic) incubator, III, 205.
 Rose, W. C., Haines, W. J., and Johnson, J. E., metabolism of valine in phloridzin glycosuria, III, 192. Rôle of amino-acids in human nutrition, III, 252.
 Haines, W. J., Johnson, J. E., and Warner, D. T., amino-acids in human nutrition, III, 661.
 Rose, W. M., quinine-sensitivity, III, 592.
 Roseman, E. See Forster, F. M.
 Rosen, A. M., thermodynamic theory of equation of state, I, 120.
 Rosen, M. J. See Bernhard, A.
 Rosen, N. See Menius, A. C., jun.
 Rosen, S., naso-genital relationship [and nasopituitary nervous pathway], III, 559.
 Rosen, S. H. See Marine, D.
 Rosenbaum, F. F., Johnston, F. D., and Keller, A. P., paroxysmal ventricular tachycardia in childhood, III, 377.
 Rosenbaum, J. D., influence of alterations in acid-base balance on transfers of carbon dioxide and bicarbonate in man, III, 228.
 Rosenbaum, J. J., and Cass, W. E., 2-phenyl-oxazole; *p*-substituted derivatives, II, 108.
 Rosenberg, G. M. See Babkin, B. P.
 Rosenberg, K. S., slide culture method for tubercle bacilli, III, 923.
 Rosenblatt, P. See Lederer, M.
 Rosenbluth, A., Bond, D. D., and Cannon, W. B., control of clonic responses of cerebral cortex, III, 873.
 and Del Pozo, E. C., effects of veratrine on superior cervical ganglion, III, 101. [Interpretation of] electric responses of tail pilomotors and nictitating membrane of cat, III, 634.
 Rosenblum, G. See Glass, S. J.
 Rosenblum, H. See Sofin, L. H.
 Rosenberg, S., and Wall, N. M., treatment of diffuse peritonitis by direct intraperitoneal introduction of sulphaniamide, III, 759.
 Rosenbusch, C. T., and Merchant, I. A., haemorrhagic septicæmia pasteurella, III, 212.
 Rosendahl, C. O., Ellis, R. V., and Dahl, O. A., air-borne pollen [in Minneapolis, Minn.] and incidence of hay fever, III, 612.
 Rosenfeld, I. See Haam, E. von.
 Rosenfeld, S., and Feldman, F., thrombopenic purpura due to sulphathiazole, III, 136.
 Rosenfeld, W. D., and Greene, M. R., metabolism of *Leptospira*, III, 282.
 Rosenfeld, M. See Ham, G. C.
 Rosenheim, O., and Webster, T. A., coprosterol formation *in vivo*. I. Cholestenone as intermediate, III, 905.
 See also Petrow, V. A.
 Rosenholtz, J. L., and Smith, D. T., thermal studies of orthoclase and microcline, I, 28.
 Rosenkrantz, J. A. See Bruger, M.
 Rosenmund, H., and Reichstein, T., crystalline cardiac glucoside from *Adonis vernalis*, II, 4.
 Rosenow, E. C., aetiology and serum treatment of persistent epidemic and post-operative hiccup [causal streptococcus], III, 357. [Results of] treatment of acute poliomyelitis with antistreptococcal serum, III, 609.
 Rosenstein, F. See Belk, W. P.
 Rosenstein, L. See Jasper, J. J.
 Rosenthal, A. See Welch, C. A.
 Rosenthal, H., and Reichstein, T., vitamin requirement of American flour beetle *Tribolium confusum*, Duval, III, 41.
 Rosenthal, L., agglutinating properties of *Escherichia coli*: agglutination of erythrocytes, leucocytes, thrombocytes, spermatozoa, spores of moulds, and pollen by strains of *E. coli*, III, 919.
 Rosenthal, N., and Erf, L. A., clinical observations on osteopetrosis and myelofibrosis, III, 857.
 See also Berg, A. A., Vogel, P., and Wasserman, L. R.
 Rosenthal, O., and Drabkin, D. L., spectrophotometric studies. XI. Direct microspectrophotometric determination of cytochrome c, III, 840. Cytochrome c in normal and neoplastic mammalian epithelium, and its correlation with body mass, III, 915.
 Rosenthal, S. M., chemotherapy of burns and shock, III, 339, 593. Trypanocidal action of 3-amino-4-hydroxyphenylarsenous oxide administered orally with glutathione, III, 514.
 See also Smith, M. I.
 Rosenthal, S. R. See Lambert, E.
 Rosenvold, L. K. See Futch, C. E.
 Rosenzweig, J. See Bloom, A. R.
 Rosenzweig, S., psychology of menstrual cycle, III, 739.
 and Hoskins, R. G., ineffectiveness of sex hormone medication in case of pronounced homosexuality, III, 100.
 Rosevear, F. B. See Ferguson, R. H.
 Roseveare, W. E. See Edwards, A. E.
 Rosi, P. A. See Meyer, K. A.
 Rosin, A. See Rachmilewitz, M.
 Rosin, S., and Friedman, S., Addison's disease in a seven-year-old boy, III, 646.
 Roskam, J., promotion of blood coagulation, III, 788.
 Roskin, G., and Nastukova, O., vitamin-C in the protozoic cell, III, 275.
 Rosner, A. A. See Brickner, R. M.
 Rosove, L. See Togasaki, Y.
 Ross, C. A. See Gunning, R. E. L.
 Ross, C. P., geology of quicksilver deposits in the United States, I, 171.
 Ross, C. S., extreme hydrothermal alteration in the Buck Creek, N. Carolina, dunite body, I, 290. Clays and soils in relation to geological processes, I, 324.
 Ross, D. M., and Pantin, C. F. A., facilitation [in muscle] in Actinozoa, III, 96.
 Ross, H., serum-phosphatase in leprosy, III, 304.
 See also Faget, G. H.
 Ross, J. F. See Hahn, P. F.
 Ross, J. R. See Chafee, F. H.
 Ross, M. A. See Benjamin, B.
 Ross, R. A. See Hubbard, J. P.
- Ross, S., foam and emulsion stabilities, I, 226. See also McBain, J. W.
 Ross, T. F. See Millar, W. G.
 Ross, V. See Shapiro, S.
 Ross, W. C. J. See Kon, G. A. R.
 Ross, W. F., and Tracy, A. H., carbon suboxide and proteins. VI. Chymotryptic digestion of malonyl-ovalbumin and -serum-albumin III, 57.
 and Wood, T. R., partial purification and nature of parathyroid hormone, III, 322. See also Tracy, A. H., and Wood, T. R.
 Ross, W. L. See Werner, A. A.
 Rossbach, P., and Seeliger, R., so-called minimal arcing potential, I, 213.
 Rossett, N. E., and Flexner, J., continuous recording of gastric pH *in situ*; evaluation of efficacy of antacids *in vitro* and in man, III, 652.
 Rossi, A. M. See Poggi, A. R.
 Rossi, B., and Nereson, N., disintegration curve of mesotrons, I, 79.
 Rossi, C. See Marini-Bettolo, G. B.
 Rossier, J., hypophysis and surgery, III, 239.
 Rossier, P., comparison of emission lines of Novae Herculis 1935 and Lacerta 1936, I, 1.
 Rossman, I., lipin and pigment in corpus luteum of rhesus monkey, III, 544.
 Rossman, J. I., cor biloculaire with transposition of great cardiac vessels and atresia of pulmonary artery: phylogenetic and ontogenetic interpretation, III, 298. Congenital atresia and stenosis of great cardiac vessels, III, 366.
 Rost, B. See Brintzinger, H.
 Rostorfer, H. H., gas content of swim bladder of rock bass, III, 12.
 Roth, E. F. See De Takats, G.
 Roth, H. See Pfützer, G.
 Roth, I. R., auricular flutter and fibrillation, III, 549.
 Roth L. W. See Andrews, A. H., jun.
 Roth, R. R., and Nelson, T., protein of ragweed pollen, III, 70.
 Roth, W. A., heat of formation of calcium aluminate, I, 16.
 Berndt, H., and Wirths, G., heats of formation of natural and artificial carbonates, I, 228.
 Rothbard, S. R., and Angevine, D. M., chronic choroiditis produced with *Streptococcus viridans* and *Streptococcus hemolyticus* in normal and in immunised rabbits, III, 357.
 Rothchild, H., and Gray, P. P., determination of vitamin-B₁ in yeast, III, 352.
 Rothen, A., mol. wts. of proteins, II, 75.
 and Craig, L. C., veratrine alkaloids. XVIII. Surface film studies, I, 256.
 and Landsteiner, K., serological reactions of protein films and denatured proteins, III, 530.
 See also Shedlovsky, T.
 Rothlin, E., experiences with mustard gas in animals and man, III, 268. Causation of pulmonary oedema in rats, III, 634.
 Jurgens, R., and Devrient, T., action of mustard gas in rats, III, 765.
 Rothman, M., Tamerin, J., and Bullowa, J. G. M., local sulphadiazine for burns, III, 583.
 Rothschild, L. See Winkelstein, A.
 Rothstein, E., and Saboor, M. A., influence of alkylation on reactions of acid derivatives in Friedel-Crafts synthesis, II, 371.
 Rotmistrov, M. N., assimilation of air-nitrogen by anaerobic cellulose bacteria, III, 523.
 Rotondi, A. J. See Guy, C. C.
 Rotta, A. See Gregg, D. E.
 Rottgardt, J., and Stierstadt, O., crystal structure and electrical properties, I, 272.
 Rottino, A., and Poppiti, R., intimal changes in medial degeneration of aorta, III, 868.
 Poppiti, R., and Rao, J., myocardial lesions in myasthenia gravis, III, 96.
 Rouault, G. F. See Smith, L. I.
 Roughton, F. J. W., Darling, R. C., Forbes, H. W., Horvath, S. M., Robinson, S., and Talbott, J. H., effects of sulphathiazole and sulphadiazine on man at rest and during exercise, III, 758.

- Boughton, F. J. W., and Scholander, P. F., micro-gasometric estimation of blood gases. I. Oxygen. II. Carbon monoxide. IV. Carbon dioxide, III, 791.
See also Darling, R. C., Edwards, G. A., Horvath, S. M., and Scholander, P. F.
- Rourke, G. M. See Stewart, J. D.
- Rouse, L. J. See Raynor, C. L.
- Rousselot, L. M., late phase of congestive splenomegaly (Banti's syndrome) with haematemesis and without liver cirrhosis, III, 373.
- Ronth, J. I., nutritional studies on powdered wool, III, 252. Nutritional studies on powdered chicken feathers, III, 404.
- Rox, G. H., microscopic anatomy of *Laterimeria* scale, III, 709.
- Rovenstein, E. A., and Cullen, S. C., anaesthetic management of patients with hyperactive carotid sinus reflex, III, 229.
See also Burstein, C. L., Doud, E. A., Martin, S. J., and Papper, E. M.
- Rovinskaya, E. I. See Kulberg, L. M.
- Row, L. R., and Seshadri, T. R., flavylium salts containing pyrone rings, II, 275.
See also Neelakantan, K.
- Rowbotham, G. F., pain pathways in migraine, III, 382.
- Rowe, A. H., chronic ulcerative colitis—allergy in its aetiology, III, 178.
See also Mauser, C. L.
- Rowe, C. F. See Pistor, W. J.
- Rowe, F. M. See Bromby, N. G., Harrison, W. S. W. and Peters, A. T.
- Rowe, L. W., antispasmodic action of morpholine and other compounds, III, 343.
Local anaesthetic action of esters of phthalic and aminophthalic acid, III, 763.
- Rowe, R. See Bona, G.
- Rowe, V. K. See Spencer, H. C.
- Rowell, L. See Butchard, P.
- Rowland, C. S. See Whitmore, F. C.
- Rowland, I. W. See McLean, D.
- Rowland, R. A. See Grim, R. E.
- Rowland, S. P. See Fuson, R. C.
- Rowlands, I. W., maintenance and restoration of growth in thyroidecomised rats, III, 22.
- Rowley, E. M. See Selye, H.
- Rowley, H. H. See Anderson, R. B.
- Rountree, L. G., aviation medicine, III, 550.
- Rowson, L. E. A., sterility in cattle due to bursitis and salpingitis, III, 173.
- Roy, A., mineral content of blood in Bengali subjects. II. Calcium, magnesium, and phosphorus content of serum, plasma, and whole blood in tubercular, diabetic, and normal people, III, 375.
- Roy, A. N., and Mukerjee, S., complement in serum of monkeys during infection with *Plasmodium knowlesi*, III, 864.
See also Niogi, A. K.
- Roy, M. F. See Weiser, H. B.
- Roy, S. N. See Chakravarti, S. N.
- Royer, G. L., Alber, H. K., Hallett, L. T., and Kuck, J. A., specifications for microchemical apparatus; sulphur and halogens; design of the Dumas nitrogen stopcock, I, 187, 266.
- Royster, C. L. See Caviness, V. S., and Whittemore, W. L.
- Rozsa, P. See Schulek, E.
- Ruangsiri, C. See Cowdry, L. V.
- Ruben, S., photosynthesis and phosphorylation, III, 444.
- Allen, M. B., Kamen, M. D., and Nahinsky, P., exchange experiments with radioactive tracers, I, 38.
- Allen, M. B., and Nahinsky, P., tracer studies with radioactive carbon; exchange between acetic anhydride and sodium acetate, I, 132.
See also Harman, D., Nahinsky, P., and Norris, T. H.
- Rubens, E., Kaplan, M., Borovsky, M. P., and Blatt, M. L., effect of sulphathiazole in treatment of dysentery in children, III, 583.
- Rubenstein, B. B., premenstrual headache relieved by oestrogen, III, 392. Treatment of menstrual disturbances in adolescent girls, III, 648.
- Rubin, B. A., and Artzichovskaja, E. V., role of invertase in synthesis of starch in plant cells, III, 853.
- Artzichovskaja, E. V., and Lutikova, O. T., determination of synthetic activity of amylase in living vegetable tissue, III, 273.
- Artzichovskaja, E. V., and Spiridonova, N. S., daily rhythm in action of invertase and its dependence on illumination, III, 293.
- Rubin, I. C., and Davids, A. M., study of cutaneous hyperalgesia and viscero-sensory reflex of uterus and tubes by uterotubal insufflation, III, 466.
See also Morse, A. H.
- Rubin, I. E. See Schneeburg, N. G.
- Rubin, J. See Gaffron, H.
- Rubin, L. C. See Benedict, M.
- Rubin, M. See Greenberg, L. A.
- Rubin, Martin. See Wyss; O.
- Rubin, M. A., Hoff, H. E., Winkler, A. W., and Smith, P. K., intravenous potassium, calcium, and magnesium and cortical electrogram of the cat, III, 796.
- Rubinowitz, A. M. See Costello, M. J., and Riordan, T. J.
- Rubinstein, H. S., combined use of testosterone propionate and psychotherapy in treatment of hypogonadal behaviour-problem boys, III, 121. Comparative effects of testosterone propionate administered intraperitoneally and subcutaneously, III, 327.
- Rubinstein, J. M. See Globus, J. H.
- Rubnitz, A. S., and Floersch, E. B., spontaneous rupture of spleen due to acute leukaemia or acute leukaemia due to trauma of spleen, III, 714.
- Ruchel, R. H. See Wood, J. G.
- Ruchman, I. See Sabin, A. B.
- Rucks, W. L., and Hobson, J. J., purpura fulminans (Waterhouse-Friderichsen syndrome), III, 646.
- Rudder, F. F. See Bishop, H. F.
- Ruddy, A. W. See Suter, C. M., and Weston, A. W.
- Rudnev, A. G. See Nametkin, S. S.
- Rudney, H. See Mendel, B.
- Rudnick, P., and Ingersoll, L. R., natural rotatory power of nickel sulphate at low temperature, I, 84.
- Rudolph, W. See Braun, J. von, and Riecke, A.
- Rudra, M. N., role of manganese in biological synthesis of ascorbic acid: synthesis of ascorbic acid by guinea-pig intestines, III, 502.
- Rudy, H., and Schloesser, H., titration curves of hexameta- and tripoly-phosphoric acid, I, 227.
- Rue, S. O., standardisation and stability of 0.1N-sodium thiosulphate solutions in hot weather, I, 41.
- Rudiger, O., suitability of beryllium for production of super-microscopic impression foils, I, 26.
- Rüdorff, W., and Schulz, H., intercalation of ferric chloride in graphite crystal lattice, I, 117.
- Ruf, H. See Baur, E.
- Rügeberg, H. H. See Windaus, A.
- Rueggelberg, W. H. C., magnesium carbides, I, 207.
- Ruegger, J. M. See Hamburger, M., jun.
- Ruehle, A. E., and Jaycox, E. K., use of powders in spectrochemical analysis, I, 185.
- Ruelius, H. See Posternak, T.
- Ruesch, J., Finsinger, J. E., and Schwab, R. S., electromyogram of handwriting, III, 99.
- Ruff, O., and Willenberg, W., hexafluoroazomethane (dicyanohexafluoride), II, 254.
- Ruffin, J. M., and Brown, I. W., significance of haemorrhagic pigment spots observed by gastroscopy, III, 743.
- Ruggiero, W. F. See Shafiroff, B. G. P.
- Ruggles, W. A. See Benford, F.
- Ruggli, P., and Hegedüs, B., acyloins, di- and poly-ketones. I. Syntheses in *ad*-diphenylbutane series, I, II, 93.
- and Holzle, K., azo-compounds and their intermediates. XXIV. Hydrazo-compounds of di(benzeneazo)diphenyl. XXV. Aminohydrazo-compounds, II, 260, 362.
- Ruggli, P., and Maeder, A., keto-acids, enol-lactones, and cyclic ketones. I. Reaction of succinyl chloride with ethyl sodiomalonate. I. So-called "ethyl succinylmalone" (ethyl 2-butanolidenemalonate) and ethyl succinylmalonate. II. Reaction of succinyl chloride with ethyl sodiomalonate, II, 351.
- and Rohner, J., azo-compounds and their intermediates. XXIII. *o*-(Benzeneazo) azobenzene, II, 158.
- Rugh, R. See Zorzoli, A.
- Ruhkopf, H., diketopyrazolidines, II, 309.
- Ruhl, G. See Dyckerhoff, H.
- Ruhl-Koupal, J. See Buchbinder, L.
- Ruhland, W., and Ramshorn, K., aerobic fermentation in active plant meristems, III, 71.
- Rugh, W. L., 7-dehydrocampesterol, a new provitamin-D, II, 12.
See also Wintersteiner, O.
- Ruiz, V., Page's peridural anaesthesia, III, 513.
- Ruiz Castaneda, M., bivalent typhus vaccine of high immunising value, III, 610.
- Rule, A. M. See Kolmer, J. A., and Raiziss, G. W.
- Rumberger, W. M., apparatus for iodometric determination of tin, I, 43.
- Rumpf, E., and Neugebauer, N., small liquid drops, II, I, 7.
- Rumreich, A. S., Shaughnessy, H. J., Mulcahey, J. V., Willett, J. C., Kellogg, W. H., and Mitchell, W. C., nation-wide co-operative study of pneumonia aetiology, III, 605.
- Rumsey, C. See Johnson, A. E.
- Rundle, R. E., and Baldwin, R. R., configuration of starch and starch-iodine complex. I. Dichroism of flow of starch-iodine solutions, II, 221.
and French, D., configuration of starch and starch-iodine complex. II. Optical properties of crystalline starch fractions, II, 221.
and Hendricks, B. C., complex mutarotation of *d*-galactose, II, 321.
See also Bates, F. L.
- Rundtief, E., Gnassi, A. M., and Price, P., sulphadiazine in meningococcal meningitis, III, 263.
- Runge, S., sterility in cow, III, 173.
- Runnström, J., and Brandt, K., effect of carbon monoxide, cysteine, glutathione, iodoacetic acid, and fluoride on transformation of pyruvic acid by baker's yeast, III, 428.
- and Marcuse, R., fluoride inhibition of fermentation in live and dead brewer's yeast, III, 844.
- and Sperber, E., transformation of pyruvic acid by baker's yeast, III, 428.
- Tiselin, A., and Vasseur, E., gamones of *Psammechinus miliaris* and *Echinocardium cordatum*, III, 480.
See also Klein, O.
- Ruoif, C. H. See Marker, R. E.
- Rupe, H. See Buser, K.
- Rupel, E., castration in treatment of prostatic cancer, III, 571.
- Rupel, I. W. See Boyer, P. D.
- Rupp, J. J. See Bischoff, Fritz.
- Ruppersberger, M. See Evans, W. E., jun.
- Rusch, H. P. See Kline, B. E., Mueller, G. C., and Wasley, W. L.
- Rusconi, (Mile) Y. See Wenger, Paul.
- Rush, A. See Norris, R. F.
- Ruska, E., electron microscope images at higher pressures, I, 138.
and Müller, H. O., representation of electron-irradiated surfaces, I, 239.
See also Barries, B. von.
- Ruskin, S. L., adenylic acid in treatment of agranulocytosis and mucous membrane lesions, III, 864.
- Rusoff, I. I. See Barnes, R. H., and Norris, F. A.
- Russ, J. D., Collins, C. G., and Powell, S., treatment of prepuberal vulvovaginitis with diethylstilboestrol, III, 115.
- Russe, W. O., and Sachs, E., pinealoma, III, 735.

- Russek, H. I. See Abbott, G. A.
- Russell, A., and Tebbens, W. G., jun., chemical constitution and tanning effect. I. Esters and polyesters of gallic acid, II, 61.
- Russell, C. D., Cooper, G. R., and Vosburgh, W. C., complex ions. V. Magnetic moments of complex ions of nickel and copper, I, 274.
- Russell, C. S., response of isolated muscle strips from upper and lower segments of human full-term pregnant uterus to pitocin and pitressin, III, 887.
See also Moir, C.
- Russell, D. S., and Falconer, M. A., acridine antiseptics, III, 908.
- Russell, H. See Blackwood, W.
- Russell, H. G. B. See Graves, T. C.
- Russell, H. N., spectral structure and ionisation potential of neutral gadolinium, I, 109.
- Russell, J. A. See Frame, E. G.
- Russell, P. B. See Madinaveitia, (Mrs.) A.
- Russell, P. F., and Mohan, B., immunisation of fowls against mosquito-borne *Plasmodium gallinaceum* by injections of serum and of inactivated homologous sporozoites, III, 521.
Mohan, B. N., and Mulligan, H. W., specific agglutinogenic properties of inactivated sporozoites of *Plasmodium gallinaceum*, III, 60.
See also Mulligan, H. W.
- Russell, P. M. G., and Dean, E. M., thyrotoxicosis and menstruation, III, 237.
- Russell, R. G., and Pearce, D. W., fractionation of rare earths by zeolite action, I, 207.
- Russell, W. C., Taylor, M. W., and Beuk, F., nicotinic acid content of common fruits and vegetables as prepared for human consumption, III, 824.
- Taylor, M. W., Walker, H. A., and Polkskin, L. J., absorption and retention of carotene and vitamin-A by hens on normal and low-fat rations, III, 406.
- See also Zimmerli, A.
- Russell, W. O., and Callaway, C. P., changes in liver and kidneys of guinea-pigs deficient in vitamin-C, III, 578.
- and Stahl, W. C., fatal poisoning from potassium thiocyanate, III, 424.
- Russell, W. R., medical aspects of head injury, III, 383.
- Russell, L. A., Stadler, H. E., and Jeans, P. C., bismuth lines of long bones in relation to linear growth, III, 221.
- Russo, M. See Dowzard, E.
- Rust, F. F., and Vaughan, W. E., olefine-oxygen-hydrogen bromide photo-reaction, II, 77.
See also Vaughan, W. E.
- Rustigian, R., and Stuart, C. A., decomposition or urea by *Proteus*, III, 606.
See also Stuart, C. A.
- Rusznyák, S., and Hatz, B. E., effect of ethylene on breakdown of starch and pectin, III, 701.
- Rutenberg, A. M. See Seligman, A. M.
- Ruth, E. B., making sections of bones and teeth, III, 709.
- Rutherford, E. See Breiter, H.
- Rutherford, H. A., Minor, F. W., Martin, A. R., and Harris, M., oxidation of cellulose; reaction of cellulose with periodic acid, II, 221.
See also Sookne, A. M.
- Rutherford, R. B. See Emery, E. S., jun.
- Rutherford, R. E. See Zollinger, R.
- Rutherford, R. N., and Mezer, J., regeneration of uterine mucosa after spontaneous abortion and normal delivery, III, 242.
See also Rock, J.
- Rutledge, E. K. See Neuburger, K. T.
- Rutovski, E. N., Berlin, A. A., and Zabirina, K., polymerisation of keto-alcohols. I. Preparation and polymerisation of γ -ketobutyl alcohol, II, 82.
- Rutschmann, J. See Karrer, P.
- Ruzicka, L., and Aner, G., triterpenes. LXXIII. Pyrolysis of a product of transformation of quinovic acid, II, 203.
- Ruzicka, L., Aner, G., and Grob, A., triterpenes. LXXIV. Dehydrogenation of quinovic acid to chrysene hydrocarbons, II, 204.
- Baumgartner, H., Rey, E., and Spillmann, M., triterpenes. LXXIX. Relationships between α -elemolic acid and the so-called " β -elemonic acid." LXXX. Further transformation of elemic acid, II, 379, 380.
- Egli, R., Grob, A., and Jeger, O., triterpenes. LXXVII. Siareasinolic acid, II, 378.
- Fürst, A., and Plattner, P. A., sesquiterpenes. LVI. Degradation of dihydroeudesmol by chromic acid, II, 97.
- Goldberg, M. W., and Hardegger, E., steroids and sex hormones. LXXXVIII. Oxidation of $\Delta^{4:17}$ -pregnadien-3-one by mono-perphthalic acid. LXXXII. Rearrangement of 17 : 20-oxido- Δ^4 -pregnen-3-one by acetic acid, II, 96, 167.
- Hausermann, H., and Rey, E., triterpenes. XLIX. β -Elemonic acid, II, 98.
- Janett, W., and Rey, E., triterpenes. LXXII. Escigenin, the aglucon of saponin from seeds of horse chestnut [*Aesculus hippocastanum*, L.], II, 169.
- and Jeger, O., triterpenes. LXX. Further transformations of β -amyradienol, II, 99.
- Jeger, O., and Redel, J., triterpenes. LXXVIII. Introduction of additional double linkings into α - and β -amyrin types with *N*-bromosuccinimide, II, 379.
- Jeger, O., and Sluys-Veer, F. C. van der, triterpenes. LXXVI. Pyrolysis of methyl hydrogen isooleanonelactonedicarboxylate, II, 204.
- Jeger, O., and Winter, M., triterpenes. LXXV. Position of carboxyl group in oleanolic and glycyrrhetic acid, II, 204.
- Lardon, F., and Treadwell, P., jasmine perfumes. II. Synthesis of lactones with jasmone-like structure, II, 182.
- and Marxer, A., triterpenes. LXXI. Attempted transformation of quinovic acid into triterpene derivatives poorer in oxygen, II, 168.
- Plattner, P. A., and Werner, L., sesquiterpenes. LIX. Oxidative degradation of adduct of caryophyllene and maleic anhydride, II, 271.
- Plattner, P. A., and Wild, H., carbon rings. XXXII. Productive preparation of cyclonanone, II, 373.
- and Prelog, V., extracts of testis. I. Lipins from swine testis, III, 741.
- Rey, E., and Spillmann, M., triterpenes. LXVIII. α -Elemolic acid, II, 98.
- Ryan, E. See Boerer, J. J.
- Ryan, F. J., time-temperature relation in development, III, 3.
- Ryan, J. See Talbot, N. B.
- Ryan, J. D., Bauman, E., and Mulholland, J. H., intraperitoneal administration of sulphadiazine, III, 265.
- Ryan, M. J. See Bartlett, P. D.
- Rychel, W. See Necheles, H.
- Rycroft, B. W., choroidal detachment, III, 734.
- Rydeen, J. O. See Clausen, S. W.
- Ryer, F. V. See Buerger, M. J.
- Ryerson, D. L., separation of two acidophilic granulocytes of turtle blood, with suggested phylogenetic relationships, III, 373.
- Ryffel, W., treatment of trigeminal neuralgia, III, 15.
- Rynearson, E. H. See Hildebrand, A. G.
- Rysselbergh, P. van. See under Van Rysselbergh, P.
- S.
- Sabetay, S., and Trabaud, L., vetiverone, II, 96.
- Sabin, A. B., filterable micro-organisms of pleuropneumonia group, III, 212. [Appendix on classification and nomenclature], III, 212. Toxoplasma-neutralising antibody in human beings and morbid body in human beings and morbid
- Sabin, A. B.—continued.
conditions associated with it, III, 359.
Pathology and pathogenesis of human poliomyelitis, III, 608.
- and Ruchman, I., characteristics of toxoplasma-neutralising antibody, III, 359.
See also Ward, Robert, and Warren, J.
- Sabine, D. B., and Schmidt, Hans R., protein hydrolysate in regeneration of serum-protein in the hypoproteinæmic rat, III, 865.
- Sabine, H. J., and Wilson, R. A., application of sound absorption to factory noise problems III, 879.
- Sabine, J. C. See Wright, C. I.
- Sabinina, L. E., and Babalova, A. A., determination of free alkali in potassium chromate, I, 236.
- Sabol, M. See Sharpless, G. R.
- Saboor, M. A. See Rothstein, E.
- Saccamano, G. See Kuntz, A.
- Sacerdote de Lustig, E., muscle automatism in cultures with eserine, acetylcholine, adrenaline, and atropine, III, 792.
- Sachar, L. A. See Elman, R., and Horvitz, A.
- Sacher, G., periodic phenomena in interaction of two neurones, III, 233.
- Sacher, K., dependence of velocity of sound on concentration in a dipolar-non-polar liquid mixture, I, 274.
- Sachs, A., and Egan, R. L., pneumonitis due to gasoline [aspiration], III, 594.
- Hills, F. C., Hughes, Rita, and Levine, V. E., copper and iron in human blood, III, 546.
- Sachs, B., [cortical pathology in] arrested cerebral development, III, 467.
- Sachs, E., malignant tumours of nervous system, III, 185. Physiology of ciliary muscle, III, 311. [Operative] destruction of choroid plexus in treatment of hydrocephalus, III, 468.
- and MacCraken, F. L., principles of tonometer standardisation, III, 731.
- See also Russe, W. O.
- Sachs, H., exceptionally weak reactivity of blood agglutinogens in two sisters (sub-group A₃), III, 227.
- Sachs, M., physiology and pathology of lens, III, 166.
- Sack, S. S. See Golan, H. G.
- Sackett, M. F. See Levine, M. I.
- Sacks, G., symposium on sciatica; surgical view, III, 97.
- Sacks, J., and Glaser, N. M., changes in susceptibility to convulsant action of metrazol, III, 197.
- Sadovsky, A., Brzezinski, A., and Bromberg, Y. M., puerperal morbidity [in Palestine], III, 243.
- Sadusk, J. F., and Oswald, E. J., *in-vitro* effect of sulphonamides on *V. cholerae*, III, 906.
- Saberg, I. See Euler, B. von, and Euler, H. von.
- Saege, (Miss) M. E. See Crawford, H. M.
- Safanova, S. I., method of feeding in spectrochemical analysis, I, 319.
- Saffer, A., and Davis, T. W., products from Wurtz reaction; their formation, II, 21.
- Saffer, C. M., jun. See Michael, A.
- Safford, H. W., and Kuebel, A., preparation and properties of ammonium diuranate, I, 233.
- Sagall, E. L., Horn, C. D., and Riseman, J. E. F., measurement of speed and duration of effect following oral and intramuscular administration of quinidine in man, III, 586.
- See also Edsall, J. T., and Zetzel, L.
- Sagara, T. See Nagayama, T.
- Sage, B. H., Reamer, H. H., Olds, R. H., and Lacey, W. N., phase equilibria in hydrocarbon systems; volumetric and phase behaviour of methane-n-pentane system, I, 16.
- See also Olds, R. H., and Reamer, H. H.
- Sage, D. N., and Spaulding, E. H., study of atypical strains of *E. typhosa*, III, 439.
- Sager, W. W., sulphanilamides in treatment of pneumococcal peritonitis, III, 134.
- Sagher, E. See Sagher, F.

- Sagher, F., and Sagher, E., absorption of infra-
-roentgen (Bucky) rays by anterior portions
of the eyeball, III, 876.
See also Dostrovsky, A.
- Sah, P. P. T., and Brüll, W., preparation of
4-amino-2-methyl-1-naphthol hydrochloride
(vitamin-K₅) from 2-methyl-1:4-naphtha-
quinone, II, 325.
- Brüll, W., and Holzen, H., preparation of
2-methyl-1:4-naphthaquinone from naph-
thalene, II, 303.
- Sahai, R. B. N., and Ray, R. C., hydrides of
nickel, I, 313.
- Sahasrabuddhe, M. B., and De, N. N., [action on
ovaries of] Indian cress oil, III, 478.
- Sahasrabudhe, D. L. See Bhide, N. V.
- Sahasrabudhey, R., and Krall, H., phenyl-
thiocarbamides; the triad -N-C-S-. XII.
Phenylcyanamide, its properties and deriv-
atives; phenylhydrazine-a-carboxylic acid,
II, 28.
- Sahibar, A. B. See Khambata, S. J.
- Sahler, S. L., Kellogg, J. F., and Phillips, R. B.,
cyclopropane anaesthesia, III, 138.
- Sahs, A. L., vascular supply of monkey's spinal
cord, III, 378.
- Sahyun, M. See Fagin, I. D.
- Saias, E., lipoprotein films from serum-albumin,
III, 348.
- Saidel, L. J. See Nicolet, B. H.
- Saier, E., Grauer, R. C., and Starkey, W. F.,
chromogenic effect of varying mixtures of
androsterone and dehydroisoandrosterone,
III, 652.
See also Starkey, W. F.
- Sailer, S., diffuse metaplastic gastritis in patient
with prolonged cachexia and macrocytic
anaemia, III, 653. Struma ovarii, III, 739.
Mediastinal sympathogonoma, III, 819.
- St. Geme, J. W., low blood-carbon dioxide
content as prodrome of diarrhoea in newborn
infant, III, 654.
- St. John, J. L., ash "free from carbon,"
III, 363.
See also Rhian, M.
- St. John, R. See Sevringshans, E. L.
- Saito, T. M. See Miller, J. J., jun.
- Sakaguchi, K., Asai, T., and Munekata, H.,
chemistry of acid fermentation by *Rhizopus*
species, III, 521.
- Sakaguchi, T. See Ishidate, M.
- Sako, W., Stewart, C. A., and Fleet, J., sulphadiazine in influenzal meningitis, III, 263.
- Sakr, E. S., and Thompson, H. C., effect of
temperature and photoperiod on seedstalk
development in carrots, III, 612.
- Saksena, B. D., force constants and normal
modes of totally symmetric vibrations in
a-quartz at room temperature, I, 147.
- Saksena, R. K., bony palate of *Uromastix*, III,
297.
- Sakurai, K. See Sugasawa, S.
- Salaman, M. H., transplantable benzopyrene-
induced skin carcinomatous of mice, III, 819.
- Saland, G. See Klein, C., and Zurrow, H.
- Salfeld, J. C., reaction of β-naphthol with dienes,
II, 239.
- Salisbury, G. W., Fuller, H. K., and Willett,
E. I., preservation of bovine spermatozoa
in yolk-citrate diluent and field results
from its use, III, 175.
See also Gunsalus, I. C.
- Salit, P. W., seasonal variations in phospholipin
content of crystalline lenses with reference
to climatologic differences, III, 104.
Phospholipin content of cataractous and
sclerosed human lenses, III, 801. Mineral
constituents of sclerosed human lenses, III,
877.
- Swan, K. C., and Paul, W. D., changes in
mineral composition of rat lenses with
galactose cataract, III, 732.
- Salle, A. J., McOmie, W. A., Shechmeister,
I. L., and Foord, D. C., evaluation of a
group of germicides by tissue culture
technique, III, 205.
See also Guest, H. L.
- Sallan, D. J. See Barnes, R. B.
- Sallmann, L. von, iontophoretic introduction of
atropine and scopolamine into rabbit eye,
III, 731.
- Salmon, A. A. See Cuyler, W. K., and Salmon,
U. J.
- Salmon, G. W., and Forbes, G. B., pneumothorax
in newborn infant, III, 722.
- Salmon, U. J., Frank, I. L., Geist, S. H., and
Salmon, A. A., six-hour pregnancy test,
III, 28.
and Geist, S. H., effect of androgens on libido
in women, III, 652.
See also Geist, S. H.
- Salmovitz, S. See Goldzieher, M. A.
- Salomon, A., salt-free diets in treatment of
acute diarrhoea, III, 814.
- Salomon, K. See Figge, F. H. J.
- Salow, H., dependence of secondary electron
emission from insulators on angle of incidence
[of primary electrons], I, 249.
- Salsbury, J. M. See Pierce, J. S.
- Salt, F. W. See Hickling, A.
- Salter, R. W. See McIntosh, J. F.
- Salter, W. S., and Morgan, R. H., filtration
method of sterilising sulphanilamide powder,
III, 416.
- Saltzmann, M. See Sloane, P.
- Saltzman, H. C. See Beaver, D. C.
- Salvestrini, H., Croxatto, H., and Alonso, O.,
action of pentamethylenetetrazole on
neuro-muscular synapses, III, 640.
- Huidobro, F., and Lucca Valenzuela, J.,
choline-esterase activity of serum during
stimulation of motor nerves, III, 628.
See also Croxatto, H., and Croxatto, R.
- Salzer, W., synthetic, highly active oestrogens,
II, 8.
See also Schopf, C.
- Samaan, A. See Hammouda, M.
- Samant, B. V., chemotherapeutic search for
antimalarials. I. Synthesis of 1-amino-3-
methoxy- and 8-chloro-1-amino-3-methoxy-
acridine, II, 104.
- Samartzev, A. G., iron passivation in alkaline
solutions of oxidisers, I, 68. Retardation
phenomena in electrolytic formation of
metallic crystals and their growth, I, 93.
Copper passivation in alkaline solutions of
oxidisers, I, 96.
- Samartzeva, A. G. See Starik, I. E.
- Sambursky, S., and Wolfson, G., fluorescence
of solutions and dielectrical properties of
solvents, I, 49.
- Samec, M., colloid chemistry of amyloses, I, 61.
Colloid-chemical and physical properties of
starch solutions as guides to the study of its
organic structure, I, 306. Structural
difference of starches differentiated colori-
metrically by iodine, II, 295.
and Dermeli, M., causes of diversity in acid
hydrolysis of starch substances, II, 124.
- Samen, E., electrical conductivity of triethyl-
sulphonylmethane, I, 154. Aliphatic
trisulphonylmethanes, II, 149.
- Sammartino, R., and Arenas, N., action of
gonadotrophic hormones on genital organs of
dogs, III, 740.
See also Arenas, N.
- Sampayo, R., *Latrodectus mactans* and latro-
dectism, III, 856.
See also Pirosky, I.
- Sampson, J., Hester, H. R., and Graham, R.,
acute hypoglycaemia in newly born pigs,
III, 87.
- Samsell, E. P., and McHard, J. A., determina-
tion of alkoxyl groups in cellulose ethers,
II, 20.
- Samson, P. C., bronchoscopy in relation to
thoracic surgery, III, 307.
and Holman, E. F., pneumonectomy for
bronchiogenic carcinoma, III, 660.
- Samuels, L. T., Ball, H. A., and Reinecke, R. M.,
balance studies on hypophysectomised
and normal rats fed on equicaloric high-
carbohydrate and high-fat diets, III, 25.
Effect of diet on glucose tolerance and liver-
and muscle-glycogen of hypophysectomised
and normal rats, III, 46.
- Samuels, L. T., Bauman, K. L., and Reinecke
R. M., growth and metabolism of young
hypophysectomised rats fed by stomach
tube, III, 885.
- Evans, G. T., and McKelvey, J. L., ovarian
and placental function in Addison's disease,
III, 883.
- Henschel, A. F., and Keys, A., influence of
methyltestosterone on muscular work and
creatinine metabolism in normal young men,
III, 233.
- Samuels, S. S., skin thermometer, III, 220.
- Samuelson, G. S. See Haley, F. L.
- Samwick, A. A. See Morrison, M.
- San-Clemente, C. L., and Ecker, E. E., estima-
tion of third component (C'3) of comple-
ment, III, 787.
- Sanctuary, J. See Brown, R. C.
- Sandberg, M. See Gross, H.
- Sandell, E. B., and Goldich, S. S., rarer metallic
constituents of American igneous rocks.
I. and II., I, 290.
See also Hybbinette, A. G.
- Sandepur, B. T., geology and paragenesis of
nickel ores of the Cuniptau mine, Goward
Nipissing District, Ontario, I, 169.
- Sander, A. See Damkohler, G.
- Sander, F. V., jun., effects of high pressure on
inversion of sucrose and mutarotation of
glucose, III, 683.
- Sandermann, W., constitution of l-pimamic acid,
II, 307.
- Sanders, A. W. See Beaver, D. C.
- Sanders, D. A., use of iodised mineral oil for
bovine mastitis, III, 909.
See also Emmel, M. W.
- Sanders, F. K., education of goldfish, III, 383.
See also Gutmann, E.
- Sanders, G. B., and Garrison, W. S., wound
healing: effect of sterile abscess on fibroplasia
in wound healing, III, 399.
- Sanders, J. M. See Winn, W. A.
- Sanders, L. W., measurement of industrial lead
exposure by determination of stippling of
erythrocytes, III, 913.
- Sanders, M., and Alexander, R. C., epidemic
keratoconjunctivitis; isolation and identifica-
tion of filterable virus, III, 528.
- Sanders, P. A. See Lauer, W. M.
- Sanderson, R. T., the microvol; apparatus for
measuring small volumes of gas, I, 167.
- Sandford, M. See Chattaway, F. W.
- Sandground, J. H., time factor influencing
p-aminobenzoate protection of rats receiv-
ing lethal doses of phenylarsonates, III,
765. Detoxication of substituted phenyl-
stibone in rat by administration of
p-aminobenzoic acid, III, 835.
and Hamilton, C. R., detoxication by
p-aminobenzoic acid of quinquevalent
arsenical drugs given in massive doses to
rats, III, 764. Quantity of p-aminobenzoic
acid required to protect rats against high
doses of carbarsone and arsanilic acid, III,
764.
- Sandholzer, L. A. See Katzin, L. I., and
Williams, C. H.
- Sandiford, I. See Kenyon, A. T., and
Knowlton, K.
- Sandkuhle, J., Kirk, P. L., and Cunningham,
B., quantitative drop analysis. XVII.
Gasometric determination of amino-
nitrogen, II, 116.
- Sandler, B., radium therapy of carcinoma of
cervix, III, 199.
- Sands, D. E., treatment of psychiatric patients
in general hospitals, III, 552.
See also Cook, L. C.
- Sandstead, H. R., superficial vascularisation of
cornea; riboflavin therapy, III, 310.
- Sandstedt, R. M. See Kneen, E.
- Sandstrom, W. M. See Scott, E. M.
- Sandusky, W. R., and Meleney, F. L., experi-
mental gas gangrene [sulphonamide treat-
ment], III, 416.
- Sandweiss, D. J. See Beaver, D. C., Patterson,
T. L., and Schindler, R.
- Saner, R. G. See Gear, J.

- Sanford, H. N., Shmigelsky, I., and Shapin, J. M.**, value of vitamin-K in newborn, III, 85.
- Sanford, R. F.**, spectrographic orbit of 42 Capricorni, I, 77. Spectrographic orbit of companion to Rigel, I, 77.
- Sanger, F.** See Harris, H. A., and Neuberger, A.
- Sanguineti, A. A.**, determination of bilirubin with Leifo photometer, III, 789.
- Sanhueza, F.** See Croxatto, H.
- Sanna, G.** [with Sollai, (*Signa.*) V.] synthesis of pyrazolesulphanilamides. II, II, 244. [with Spano, S.], action of polyhalogenated derivatives on organomagnesium compounds, II, 214.
- Sano, M. E., and Gault, E. S.**, cine-photomicrographic apparatus with constant-temperature chamber for tissue culture studies, III, 80.
- Sano, T.** See Asahina, Y.
- Sant, G.**, urea-clearance test, III, 179.
- Sant, U. A.** See Kolhatkar, G. B.
- Santalov, F. A.**, silver membranes, I, 168.
- Sapeika, N.**, chemotherapeutic agents of microbial origin, III, 205. Sulphonamide compounds, III, 416.
- Saphir, O.** See Appel, M.
- Saphir, W., Baer, W. H., and Plotke, F.**, sulphaguanidine and iodophthalein in typhoid carriers, III, 134. and Weinglass, A. R., angioneurotic oedema following stilboestrol, III, 241.
- Saposhnikov, D. I.**, determination of concentration of chlorophyll, II, 116. Conditions of oxidation in leaves of *Elodea densa*, III, 362.
- Sappington, S. W., and Fisher, H. R.**, arteriosclerosis obliterans, III, 379.
- Sarabhai, V.**, time distribution of cosmic rays, I, 190.
- Sarason, E. L.**, morphologic changes in the rat's adrenal cortex, III, 558. Adrenal cortex in systemic disease, III, 735.
- Sarett, H. P.**, determination of N-methyl derivatives of nicotinic acid in urine, III, 895. [with Stenhouse, M.], nicotinic acid metabolism. II. Fate of nicotinic acid in normal and black-tongue dogs, III, 45.
- Huff, J. W., and Perlzweig, W. A.** [with Stenhouse, M., and Forth, R.], nicotinic acid metabolism. I. Fate of nicotinic acid in man, III, 45.
- Klein, J. R., and Perlzweig, W. A.**, effect of level of protein intake on urinary excretion of riboflavin and nicotinic acid in dogs and rats, III, 409.
- and Perlzweig, W. A., effect of protein and vitamin-B levels of diet on tissue content and balance of riboflavin and nicotinic acid in rats, III, 407.
- Sárfy, E.**, influence of vitamin-B₁ on adrenaline content of adrenals and of blood, III, 664.
- Sargent, W.** See Hill, D.
- Sargent, H., Buchman, E. R., and Farquhar, J. P.**, constitution of perylene: chemical evidence, II, 77.
- Sarker, S.** See Banerjee, T.
- Sarkisian, S. G.**, mineralogy of lower cretaceous deposits of Kislovodsk [Lower Caucasus], I, 75.
- Saries, W. B.** See Gee, L. L.
- Sarma, A. K.** See Majumdar, S. K.
- Sarma, M. L., and Giri, K. V.**, plant phosphatases. IV. Occurrence of free and bound phosphatases in seeds, III, 535.
- Sarma, P. S., and Bhagvat, K.**, accumulation of pyruvic acid in rice moth larva (*Corycra cephalonica*, Staint) fed on a vitamin-B₁-deficient diet, III, 188. Synthesis of vitamin-C by rice moth larva (*Corycra cephalonica*, Staint), III, 412.
- Swami, G. B. L., and Sreenivasya, M.**, insect nutrition; biological assay of thiamin with *Corycra cephalonica*, Staint, as experimental animal, III, 188.
- Sarnat, B. G., and Hook, W. E.**, effects of hibernation on tooth development, III, 77. See also Brodie, A. G., and Schour, I.
- Sarnoff, S. J.** See Koster, H.
- Sartori, A.**, variations in alveolar air due to voluntary slow and rapid breathing, III, 791.
- Sartori, G., and Cattaneo, C.**, polarography of naphthaquinone derivatives, I, 37. See also Caglioti, V., and Cattaneo, C.
- Sartory, A.**, acid-resistant *Actinomyces*, *A. ondulans*, n. sp., III, 354. *Actinomyces chromogen*, III, 845.
- Sarudi, I.**, determination of cadmium as cadmium sulphide, I, 285. Separation of lead from copper, cadmium, and iron, as lead chromate, I, 315.
- Sas, L.**, mandelic acid therapy in *Staphylococcus* and *B. coli* infections, III, 692.
- Saskin, E.** See Pelner, L.
- Saslaw, S., Schwab, J. L., Woolpert, O. C., and Wilson, H. E.**, reactions of monkeys to experimental respiratory infections. VI. Infections in nutritional deficiency states, III, 525. See also Doan, C. A., Merino, C., Schwab, J. L., and Woolpert, O. C.
- Sastri, B. N., and Sivaramakrishnan, P. R.**, magnesia as adsorbent for ascorbic acid, III, 191.
- Sastray, M. G.**, structure of the electronic bands of the OD molecule. IV. Spin doubling. V. Doubling. VI. Isotopic shift, I, 4, 49, 248.
- Sastray, V. V. K., and Seshadri, T. R.**, chemical examination of Indian lichens. VII. Chemical components of *Parmelia abessinica* (Rathepuvu), III, 295. See also Sundara Rao, W. V. B.
- Sathe, N. V., Phalnikar, N. L., and Bhide, B. V.**, dipole moment and molecular structure. IV. Dipole moments of glyptals, I, 116.
- Sati, M. H.**, antimony treatment of Sudan kala-azar, III, 52. See also Kirk, R.
- Sator, A.** See Liandrat, G.
- Satterfield, G. H., Bailey, E. A., jun., Foster, J. E., and Hostetler, E. H.**, ascorbic acid content of ewes' blood, colostrum, and milk: effect of ascorbic acid injections, III, 412. See also Bell, T. A., Holmes, A. D., and Schroder, G. M.
- Satterthwaite, R. W.** See Colston, J. A. C.
- Sattler, D. G.**, absence of local sign in visceral responses to pain, III, 795.
- Satulsky, E. M.**, dermatitis venenata caused by manzanillo tree, III, 515.
- Sauer, H. R.** See Herger, C. C.
- Sauerwein, K.**, magnetic field of great homogeneity for the Wilson cloud chamber, I, 102.
- Saukov, A. A., and Aidinjan, M. C.**, clarke of mercury in the earth's crust, I, 106.
- Saul, L. J.**, relation of emotions and allergy, III, 100. and Bernstein, C., jun., emotional settings of attacks of urticaria, III, 100. See also Alexander, F.
- Sauls, H. C.** See Smith, C.
- Saunders, F.** See Bass, A.
- Saunders, G. F.**, treatment of sleeping sickness by 4:4'-diamidinodiphenoxypentane, III, 50.
- Saunders, H. C., Canizares, O., and Reider, R. F.**, diagnostic test materials in chancroid, III, 66.
- Saunders, J. B. de C. M.** See Abbott, L. A.
- Saunders, P. R.** See Alles, G. A.
- Saunders, R. H., Murray, M. J., Cleveland, F. F., and Komarewsky, V. I.**, aldol condensation. I. Detection of carbonyl groups in aldols by means of Raman spectra, II, 319.
- Saunders, R. H., jun.** See Syverton, J. T.
- Saunders, R. L. de C. H.**, os epipyramis or epitrilectrum, III, 221.
- Saunders, R. N.** See Gunn, R. M. C.
- Saunders, T. S.**, respiratory allergy from arsphenamines, III, 514.
- Saurer, A.**, hormonal treatment of cachexia, III, 107. Use of Cutler-Power-Wilder adrenal cortex function test in Addison's and other diseases, III, 239.
- Saurwein, J.** See Brand, T.
- Savage, W.**, food poisoning, III, 494.
- Savary, J.** See Bois, E.
- Savill, A.**, pruritus vulvæ: leukoplakia and kraurosis, III, 119.
- Savin, L. H., and Pritchard, G. C.**, choroidal melanoma treated by surgical diathermy, III, 106.
- Savithri, (Miss) K.**, magnetic study of reaction $\text{AsBr}_3 + \text{Br}_2 \rightarrow \text{AsBr}_5$, I, 67. and Rao, S. R., magnetic susceptibility of peroxides, I, 56. See also Rao, S. R.
- Savitsky, N.** See Bender, M. B.
- Savoy, (Miss) C. M. S., and Abernethy, J. L.**, halogenation of esters in diphenyl series. I. Chlorination of *p*-diphenyl acetate. II. Chlorination of *p*-diphenyl benzoate and benzenesulphonate, II, 28, 88. See also Schmidt, Harold R.
- Sawin, P. B., and Glick, D.**, atropine-esterase, a genetically determined enzyme in the rabbit, III, 543. See also Hunter, M. W., and McNutt, C. W.
- Sawyer, C. H.**, choline-esterase and behaviour in *Amblystoma*. I. Relationship between development of enzyme activity and early motility. II. Effects of inhibiting choline-esterase, III, 707.
- Sawyer, R. A., and Vincent, H. B.**, plate calibration problems, I, 287. See also Vincent, H. B.
- Sax, K.**, effect of centrifuging on production of X-ray-induced chromosomal aberrations, III, 451.
- Saye, E. B.**, substitute for Wright's blood stain, III, 453.
- Sayers, G., Sayers, M. A., White, A., and Long, C. N. H.**, effect of adrenotropic hormone on cholesterol content of rat adrenal, III, 808.
- White, A., and Long, C. N. H.**, preparation of pituitary adrenotropic hormone, III, 808. Preparation and properties of pituitary adrenotropic hormone, III, 886. See also Orten, J. M.
- Sayers, M. A.** See Sayers, G.
- Sayers, R. R., and Jones, R. R.**, influence of industrial medical work on general health and medical science, III, 53.
- Yant, W. P., Schrenk, H. H., Chorniyak, J., Pearce, S. J., Patty, F. A., and Linn, J. G.**, methanol poisoning. I. Exposure of dogs to methanol vapour in air, III, 347.
- Sayles, D. C.** See Kharasch, M. S.
- Saylor, J. H., Baxt, V. J., and Gross, P. M.**, solubility studies. VII. Solubility of isomeric ketones in water, I, 123.
- Saylor, J. S.** See Smull, J. G.
- Sayward, J. M.** See Kienle, R. H.
- Sborgi, U.**, proposed physico-chemical unit, g./N, to be called a "Cannizzaro unit," I, 189.
- Scal, J. C.**, evaluation of sulphanilamide therapy in acute otitis media and mastoiditis, III, 168.
- Scala, N. P.** See Spiegel, E. A.
- Scannell, M.** See Bullowa, J. G. M.
- Scarborough, H.**, circumcorneal injection in human riboflavin deficiency, III, 385. Vitamins and haemorrhagic states, III, 826. See also Bell, G. H., and Crosbie, A.
- Scarf, R. W., and Keele, C. A.**, effects of temporary occlusion of renal circulation in rabbits, III, 869.
- Scatchard, G.**, constants of Debye-Hückel theory, I, 256.
- Scattergood, A.**, lecture demonstration of mixture versus compound, I, 321.
- Schaaf, E.** See Ziegler, K.
- Schachinger, E.** See Stetter, G.
- Schachner, H., Fries, B. A., and Chaikoff, I. L.**, effect of hexoses and pentoses on formation in vitro of phospholipin by brain as measured with radioactive phosphorus, III, 261.
- Schachter, M., and Dworin, S.**, cardiovascular action of bile salt with regard to inhibition of choline-esterase, III, 718.

- Schadewald, M., transsynaptic effect of neonatal axon section on bouton appearance about somatic motor cells, III, 635.
- Schadlun, T. N., and Nesterova, J. S., sulphates from Blyava sulphate deposit (South Urals), I, 107.
- Schaefer, A. E., McKibbin, J. M., and Elvehjem, C. A., vitamin-B complex in nutrition of dog, I, 254.
- Schaefer, F. See Heyne, G.
- Schafer, H., boric acid and hydroxy-compounds. I. Complex formation of boric acid with salicylic acid in aqueous solution. II. Salts of monosalicylyl-boric acid. III. Equilibrium between borate ion, pyrocatechol, and pyrocatechol borate ion in aqueous solution, and preparation of monopyrocatechol borates, I, 92, 95, 160.
- and Sieverts, A., volumetric determination of boric acid. I. and II., I, 284.
- Schafer, K., thermal differences of α - and β -hydrogen, I, 32. Intradiffusion coefficient and viscosity of monatomic liquids, I, 149.
- Schaefer, V. J., surface replicas for microscopic observation, I, 103. Surface replicas containing dye for use in the light microscope, I, 318.
- Schaeffer, H. F., iodoform reaction by methods of microscopy, II, 116.
- Schaeffer, M., preparation of purified influenza virus, III, 358.
- Schaeffer, R. L. See Strickroot, F. L.
- Schaffer, A. I. See Goldman, A.
- Schaffer, N. K., Dill, L. V., and Cadden, J. F., uric acid clearance in normal pregnancy and pre-eclampsia, III, 656.
- Schaikind, S. P., polarographic analysis of lead and its compounds, I, 236.
- Schain, G., study of variation of emission lines in spectrum of night sky, I, 45. Occurrence of carbon isotope bands in spectra of *N*-type stars, I, 48.
- Schainer, J. F., mutual melting relations of pyroxenoids melilites, and olivines in the quaternary system $\text{CaO}-\text{FeO}-\text{Al}_2\text{O}_3-\text{SiO}_2$, I, 268.
- and Bowen, N. L., binary system CaSiO_3 -diopside and relations between CaSiO_3 and akermanite, I, 74.
- Schales, O., Hoobler, S. W., and Haynes, F. W., cardiovascular effects of renin, III, 631.
- Stead, E. A., jun., and Warren, J. V., non-specific effect of kidney extracts in lowering blood pressure, III, 398.
- Schalk, A. F. See Hunt, C. H.
- Schallamach, A., device for visual observations at low temperatures, I, 25.
- Schallek, W., locomotor activity in crayfish, III, 551.
- Schaller, W. See Nilson, H. W.
- Schaller, W. T., identity of ascharite, camsellite, and β -ascharite with szaibelyite, and relations of magnesium borate minerals, I, 172. Graphic granite, I, 268.
- and Glass, (Miss) J. J., occurrence of pink zoisite (thulite) in the United States, I, 171.
- See also Stevens, R. E.
- Schalm, O. W., treatment of chronic bovine mastitis, III, 134.
- Schamberg, I. L. See Wile, U. J.
- Schamp, H. M., effects of constant intravenous injections of potassium chloride into normal conscious dogs, III, 912.
- Schandler, H., assimilation of atmospheric nitrogen by yeasts, III, 143.
- Schaper, I. See Becker, A.
- Schapiro, D. See Bergmann, F.
- Scharff-Goldhaber, (Mrs.) G. See O'Neal, R. D.
- Schatzalow, A. J., irreversible electrode potentials of tin, I, 130.
- Schatia, V., incidence of neurosis in cases of bronchial asthma, III, 95.
- Schattenberg, H. J., and Harris, W. H., jun., lesions in body tissues following sulphonamide therapy, III, 674.
- See also Harris, W. H., jun.
- Schattenstein, A. I., apparatus for investigating physico-chemical properties of solutions in liquefied gases and for carrying out reactions in such solutions under pressure, I, 26.
- See also Markova, G. S.
- Schattner, O. See Braun, J. von.
- Schatz, A. See Waksman, S. A.
- Schauenstein, E. See Halden, W.
- Schechter, A. See Kuschnerov, M.
- Schechter, A. E. See Freeman, N. E.
- Schechter, F. R. See Colton, Norman H.
- Schechter, M. S., and Haller, H. L., insecticidal principle in fruit of the Amur corktree, III, 615.
- Schechtman, A. M., and Cannon, J. A., differentiation of proctodæum, III, 783.
- Schein, L. D. See Link, K. P.
- Scheffer, A. See Freudenberg, K.
- Scheffers, H., polarisability of hydrogen atom, I, 245.
- Scheffler, M. M., visual loss following distant haemorrhage, III, 473.
- Scheibe, G., light absorption and energy propagation by loose complexes in organic dyes, I, 297.
- Dörfling, H., and Assmann, J., constitution of indigo [derivatives] as determined by absorption measurements, II, 390.
- See also Butenandt, A.
- Scheidenhelm, E. C., Bortree, A. L., Huffman, C. F., and Clark, C. F., results of feeding chloretoone to bulls, III, 833.
- Scheie, H. G., Moore, E., and Adler, F. H., physiology of aqueous in completely iridectomised eyes, III, 876.
- Scheinfinke, N., acetylcholine and electrical stimulation of skeletal muscle in frogs, III, 723.
- See also Asher, L.
- Scheinker, I. M., changes in brain in Rocky Mountain spotted fever, III, 468.
- Scheintzis, O. G., gravimetric determination of potassium, rubidium, and caesium, I, 315.
- Schenck, G. See Ziegler, K.
- Schenck, J. R., origin of β -alanine in the animal body: microbiological assay of β -alanine, III, 757.
- Simmonds, S., Cohn, M., Stevens, C. M., and Du Vigneaud, V., relation of transmethyl-ation to anserine, III, 827.
- Schenck, M., bile acids. LVIII. Behaviour of the diketohydroxamic acid, $\text{C}_{24}\text{H}_{35}\text{O}_8\text{N}$, and other hydroxamic acids towards alkaline permanganate solution. LX., II, 270, 304.
- Schenck, R., chemistry of the solid state, I, 321.
- Schenk, J. J. See Ramel, E.
- Schenk, P. W., sulphur monoxide. VIII. Decomposition of sulphur monoxide; poly-sulphur oxides, I, 282.
- Schenken, J. R., and Moss, E. S., *Enterobius vermicularis* in appendix, III, 247.
- See also Goldmann, B. A.
- Schenenthal, J. E. See Uhlenhuth, E.
- Schepers, G. W. H. See Jokl, E.
- Scherago, M. See McFadden, D. B.
- Scherb, R., contractures of skeletal muscle in epidemic infantile poliomyelitis, III, 723.
- Scherf, D., response of focus of origin of experimental ventricular extrasystoles to warming or cooling, III, 304.
- See also Boyd, L. J.
- Scheribel, K. J. See Moncreiff, W. F.
- Scherlis, S., response to sulphapyridine in 241 cases of pneumonia, III, 133.
- and Levy, D. S., Weltmann serum coagulation reaction, III, 84.
- Schert, G. L. See Marvel, C. S.
- Shestichin, P. See Kornfeld, M.
- Scheunert, A., and Krockert, G., nutritive value of dried testicle, III, 661.
- and Wagner, K. H., vitamin-A content of green vegetable leaves, III, 663.
- Vitamin-B₁ and -B₂ content of dried wood-sugar yeast, III, 664.
- Schevtschenko, M. V. See Brumberg, E. M.
- Schick, A., treatment of Ménière's syndrome with magnesium salts, III, 556.
- Schick, B., allergy in rheumatic disease, III, 612.
- Weiner, S. B., and Reiner, M., icterus index of cord blood, III, 88.
- Schick, E. See Karrer, P.
- Schick, R. D., changes in whole vagina of mouse during oestrus and pregnancy, III, 889.
- Experimental stimulation of gestational changes in vagina of mouse, III, 889.
- Schiebold, E., significance of crystallographic factors in heterogeneous reactions, I, 280.
- See also Ardenne, M. von.
- Schiefelbusch, T. L. See Koenig, R. A.
- Schieltz, N. C. See Whistler, R. L.
- Schier, R. J., and Doan, G. E., equivalent penetrometers in radiographic testing, I, 320.
- Schiff, L. See Maher, M. M.
- Schiffrin, M. J., and Gray, J. S., effect of urogastrone on gastric secretion in enterectomised dogs, III, 652.
- See also Foltz, E. E.
- Schifrin, A., Tuchman, L., and Antopol, W., diagnostic value of serum choline-esterase determinations in jaundice and in cirrhosis of the liver, III, 248.
- Schild, H. O. See Eggleton, M. G.
- Schiller, G. See Appel, H.
- Schiller, S., and Smith, O. W., serum-diastase and its relation to oestrogen metabolism in pregnancy and menstrual cycle, III, 650.
- Schiller, W., new classification of ovarian tumours, III, 251. Parvilocular tumours of the ovary, III, 493. Liver cell fat necrosis caused by pancreatic reflux, III, 654.
- Schilling, R. S. F. See Killick, E. M.
- Schlitz, J. See Bruhat, G.
- Schindler, R., and Ort Mayer, M., histopathology of chronic gastritis, III, 245.
- Sandweiss, D. J., and Mintz, I. L., benign submucosal tumours of stomach: gastroscopic study, III, 123.
- and Smith, W. M., anacidity and gastritis associated with gastric carcinoma, III, 177.
- Schintlmeister, J., and Czulius, W., switching device for a counter worked by a thyratron, I, 265.
- Schinz, H., and Bourquin, J. P., oil of lavender. II. Constitution of lavandulol, II, 181.
- and Seidel, O. F., oil of lavender. I. Lavandulol, a new monoterpene alcohol from oil of lavender, II, 181.
- Schinz, H. R., experimental cancer production by implantation of metals, III, 818. Radio-logical treatment of bronchial and pulmonary carcinoma, III, 820.
- Schirmer, F. B., jun., Audrieth, L. F., Gross, S. T., McClellan, D. S., and Seppi, L. J., composition and structure of molybdenum-blue, I, 68.
- See also Steinman, R.
- Schischakov, N. A., and Moiseev, P. S., study of corrosion products of iron by means of X-rays and electron diffraction, I, 40.
- Schischkin, N. [with Bachrak, E. A., Smirnowa, A. W., and Badeewa, T. S.], anhydrous iron alums, I, 136.
- Schischlovski, A. A. See Kondilenko, I. I.
- Schischniashvili, M. E., and Kargin, V. A., highly purified alumina-silica sols, I, 126.
- Schischabalova, L. P. See Sementschenko, V. K.
- Schjanberg, E. See Holmberg, B.
- Schikabar, M. N., zeolites of the Mama-Vitim mica-bearing region, I, 106.
- Schlatter, M. J., reaction between thioamides and primary amines, II, 83.
- See also Buchman, E. R.
- Schlayer, C. See Kempner, W.
- Schleede, A., fluorescence and phosphorescence of crystal phosphors, I, 297.
- Schleicher, A., sensitivity of chemical reactions. I.—III., I, 262, 283. Possibility of error in determination of sulphur as barium sulphate, I, 262. Work involved in and efficiency of colorimetric methods, I, 315.

- Schleicher, E. M.**, staining aspirated bone marrow with domestic Wright stain, III, 158. Mallory-Heidenhain connective tissue stain; employing domestic azocarmine B, aniline-blue, and orange G in balanced concentrations, III, 709.
See also Petit, J. V.
- Schleifstein, J. I.**, and **Coleman, M. B.**, unidentified micro-organism pathogenic for man, III, 354.
- Schlenk, F.**, identification of carbohydrate group in nicotinamide nucleotides, III, 273. and **Euler, H. von**, nicotinamide-nucleoside, II, 206.
See also Höglberg, B.
- Schlesinger, R. W.**, **Morgan, I. M.**, and **Olitsky, P. K.**, neutralising antibody in experimental equine encephalomyelitis, III, 287. See also Morgan, I. M., and Olitsky, P. K.
- Schlesinger, S. L.** See Mishulow, L.
- Schlessinger, I.** See Mandelbaum, J.
- Schleussner, R. C.**, and **Schnee, C. F.**, Gaucher's disease, III, 161.
- Schlezinger, N. S.**, and **Goldstein, K.**, Friedreich's ataxia associated with diabetes mellitus, III, 164.
See also Yaskin, H. E.
- Schlirk, K.**, retainment of central vision in case of bilateral thrombosis of posterior cerebral arteries, III, 552.
- Schloemer, A.** See Bleyer, B.
- Schloesser, H.** See Rudy, H.
- Schlosser, E.** See Hardy, A. V.
- Schlothauer, C. F.**, and **Berryman, G. H.**, anaemia in dogs from feeding onions, III, 623.
and **Bollman, J. L.**, effect of artificial cryptorchidism on prostate of dogs, III, 123.
- Schluenderberg, H.**, treatment of deafness and tinnitus aurium with prostigmine, III, 107.
- Schluge, H.** See Finkelnburg, W.
- Schlumberger, F. C.** See Lower, W. E.
- Schlutz, F. W.** See Oldham, H.
- Schmäh, H.** See Schröder, W.
- Schmakova, G. V.** See Sedletzki, I. D.
- Schmalfuss, K.**, formation of fat in plant seeds, III, 853.
- Schmelkes, F. C.**, and **Wyss, O.**, inactivation of sulphonamide inhibitor by azochloroamide, III, 581.
See also Andrus, W. de W., and Wyss, O.
- Schmellenmeier, H.** See Kassube, B.
- Schmid, G.**, bacteriological examination of meat, III, 601.
- Schmid, Gerhard**, grinding of macro-molecules; explanation of depolymerising effect of ultrasonic waves, I, 273.
- and **Jetter, U.**, influence of ultrasonic waves on magnetic behaviour of nickel, III. Ferrograph measurements on nickel wires, I, 148. Influence of supersonic vibrations on magnetic properties of nickel, I, 221.
- and **Roll, A.**, effect of intense sonic waves on molten metals. III. Solution of iron in molten zinc, I, 260.
- and **Stoll, E. K.**, hydrogen overpotential in alkaline electrolytes under reduced pressure, I, 309.
- Schmid, H.** See Späth, E.
- Schmid, R.** See Gero, L.
- Schmid, W.** See Theilacker, W.
- Schmidt, A.** See Eckart, F.
- Schmidt, A. W.**, and **Gemassmer, A.**, physical data of monoalkylcyclo-pentenes and -pentanes, II, 222.
- and **Schoeller, V.**, physical data of *p*-alkyltoluenes, I, 300.
- Schmidt, C. L. A.**, radioactive sulphur. I. Synthesis of methionine. II. Conversion of methionine sulphur to taurine sulphur in dogs and rats. III. Distribution of sulphur in proteins of animals fed sulphur or methionine. IV. Experiments *in vitro* with sulphur and hydrogen sulphide, III, 292.
See also Duggan, E. L.
- Schmidt, C. R.**, and **Hertzler, A. E.**, cardiotoxic goitre, a distinct entity, III, 389.
- Schmidt, E.**, and **Striewsky, W.**, aliphatic carbodi-imides, II, II, 219.
- Schmidt, E. G.**, ether extraction method for determination of urinary phenols, III, 152.
- Schmidt, E. R.**, and **Waters, R. M.**, anaesthesia, anaesthetics, and surgeons, III, 267.
- Schmidt, F.** See Weitz, E.
- Schmidt, G.**, and **Thannhauser, S. J.**, intestinal phosphatase, III, 844.
- Schmidt, H.** See Staudinger, Hermann.
- Schmidt, Hans**, significance of antigen structure of *Salmonella* bacteria for their agglutination by hydrogen ions, III, 66.
- Schmidt, Hermann**, colour pyrometry, I, 43.
- Schmidt, H. J.**, progesterone in postpartum psychosis, III, 890.
- Schmidt, Hans R.** See Sabine, D. B.
- Schmidt, Harold R.**, *Savoy*, (*Miss*) C. M. S., and **Abernethy, J. L.**, chlorination of *p*-diphenyl acetate in acetic acid, II, 159.
- Schmidt, Hans W.**, polarographic investigation of relationship between effect of ultra-violet irradiation and concentration of protein solutions, III, 838.
- Schmidt, Herbert W.**, **Mousel, L. H.**, and **Harrington, S. W.**, postoperative atelectasis, III, 551.
- Schmidt, I. G.**, mitotic proliferation in ovary of normal mature guinea-pig treated with colchicine, III, 3.
- Schmidt, L. H.**, **Deitwiler, H. A.**, **Hilles, C.**, and **Starks, E.**, response of different types and strains of pneumococcus to sulphapyridine, III, 417.
- and **Sesler, C. L.**, sulphapyrazine; activity against experimental infections with β -haemolytic streptococci compared with sulphadiazine, sulphathiazole, sulphapyridine, and sulphanilamide, III, 582.
See also Hamburger, M., jun., Hughes, H. B., and Mills, C. H.
- Schmidt, O.**, nerve conduction as an interaction effect in protein chains, III, 872.
- Schmidt, O. T.**, and **Kraft, H.**, action of diazo-methane on mannosecarbohydrate acid, II, 292.
- Schmidt, W.** See Albers, H.
- Schmidt, W. J.**, optical polarisation experiments with beeswax, I, 81. Optical polarisation methods of investigating dentines. I., III, 817.
- Schmidt-Thome, J.**, inhibition by serum of haemolysis by digitonin, III, 373.
Haemolysis by digitonin, III, 373.
and **Augustin, H.**, titrimetric micro-determination of cholesterol based on haemolysis of blood corpuscles; application to serum, III, 375.
- Schmied, R.** See Lottermoser, A.
- Schmitt, F. O.**, **Hall, C. E.**, and **Jakus, M. A.**, investigation of collagen by electron microscope, III, 80.
- Schmitt, G.** See Elod, E.
- Schmitz, A.**, **Merten, R.**, and **Herken, H.**, inhibition of hydrolysis of *dl*-leucylglycine, III, 142.
See also Merten, R.
- Schmitz, H.**, and **Schumacher, H. J.**, photochemical reactions between vinyl chloride and chlorine or bromine, leading to the formation of $\alpha\beta$ -trichloroethane and $\alpha\beta$ -dibromochloroethane, I, 206.
See also Kaufmann, H. P.
- Schmitz, H. E.** See Greenhill, J. P., and Liebling, J.
- Schmitz, W. H.**, chemotherapy in diseases of genito-urinary tract, III, 509.
- Schmitz-Dumont, O.**, amides of tervalent chromium and cobalt, I, 282. Tin triphenyl oxide [bis-tin triphenyl ether], II, 345.
- Schmolke, G.** See Ferber, E.
- Schmuk, A.**, **Smirnov, A.**, and **Iljin, G.**, formation of nicotine in plants grafted on tobacco, III, 292.
- Schnackenberg, H.** See Suhrmann, R.
- Schnakenberg, G. W.** See Albrecht, G.
- Schnedorf, J. G.**, **McClure, R. D.**, and **McGraw, A. B.**, use of oxygen in post-operative therapy of hyperthyroidism, III, 722.
See also Tadros, W.
- Schönenberg, M.**, and **Chandrasekhar, S.**, evolution of main-sequence stars, I, 113.
- Schnee, C. F.** See Schleussner, R. C.
- Schnee, I. M.**, membranous inflammation of oropharynx, nose, and conjunctiva from sulphathiazole, III, 510.
- Schneeberg, N. G.**, **Likoff, W. B.**, and **Meranze, D. R.**, evaluation of blood test for galactose tolerance [of liver efficiency] in diagnosis of hyperthyroidism, III, 644.
- Likoff, W. B.**, and **Rubin, I. E.**, pituitrin concentration test of renal function, III, 647.
See also Meranze, D. R.
- Schneider, A. W.**, and **Hoehn, W. M.**, preparation of deoxycholic acid from cholic acid, II, 199.
- Schneider, B. A.**, nutrition of *Tribolium confusum* (Duval). II. Effect of vitamin-B complex on metamorphosis, growth, and adult vitality, III, 575.
- Schneider, C. H.**, and **Lynch, C. C.**, ternary system dioxan-ethyl alcohol-water, I, 257.
- Schneider, E.** See Böhme, H.
- Schneider, G. W.** See Childers, N. F.
- Schneider, P. F.**, subjective symptoms and therapeutic response in control of oestrogen-progesterone therapy in menstrual and reproductive disorders, III, 116. Weekly urinary pregnanediol determinations throughout last seven months of pregnancy in two cases of [previously diagnosed] primary sterility, III, 118.
- Schneider, W.**, and **Keller, H.**, $\beta\delta\gamma\epsilon$ -tri-*p*-anisyl- $\Delta^{\gamma\epsilon}$ -heptatriene; problem of tautomerism or mesomerism?, II, 364.
- and **Pothmann, A.**, solution colours of phenol betaines of quinoline series, II, 384.
- Schneider, W. C.**, and **Potter, V. R.**, assay of animal tissues for respiratory enzymes. II. Succinic dehydrogenase and cytochrome oxidase, III, 839.
- Schneider, W. G.**, and **Thorvaldson, T.**, hydration of aluminates of calcium. III. Hydration of 5:3,1:1, and 3:5 calcium aluminates, I, 157.
See also Harris, G. M.
- Schneiter, R.**, mouse holders facilitating intravenous and intraperitoneal injections, III, 363.
- Neal, P. A.**, and **Caminita, B. H.**, aetiology of acute illness among workers using low-grade stained cotton, III, 270.
See also Neal, P. A.
- Schoch, T. J.**, fractionation of starch by selective precipitation with butanol, II, 124. Non-carbohydrate substances in cereal starches, III, 446.
- Wilson, E. J.**, jun., and **Hudson, C. S.**, stability of β -methylmaltoside towards hot alkali, II, 124.
See also Wilson, E. J., jun.
- Schoder, H.** See Brockmann, H.
- Schöberl, A.**, reaction possibilities of natural compounds containing sulphur, II, 219.
and **Rambacher, P.**, reactivity of sheep's wool keratin, III, 746.
- Schoeller, V.** See Schmidt, A. W.
- Schön, M.**, glowing of crystalline phosphors, I, 81.
- Schoenbach, E. B.**, **Jezukawicz, J. J.**, and **Mueller, J. H.**, conversion of hydrolysate tetanus toxin into toxoid, III, 694.
See also Mueller, J. H.
- Schönbaum, B.** See Prelog, V.
- Schönberg, A.**, and **Asker, W.**, cleavage of ethylene linkage by thionyl chloride, II, 44.
and **Mustafa, A.**, photo-reactions. V. Photo-oxidation of non-ionisable thioketones in sunlight. VI. Formation of benzpinacol by action of acetone on benzhydrol in sunlight, II, 262, 265.
- and **Mcoubacher, R.**, indene derivatives. II. Triketohydrindene, II, 136.
and **Mustafa, (Miss) A.**, action of phosphoric oxide on phenyl esters; Fries reaction, II, 135.

- Schoenborn, E. M. See Jones, C. A.
 Schönbrunner, J. bacterial hydrogenation of oleic acid and sorbic acid and effect of bile acids, III, 688.
 Schöne, H. G. See Krabbe, W.
 Schoeneheimer, R. See Ratner, S.
 Schönhofer, F., significance of quinoid linkage in quinoline compounds for antimalarial activity, III, 136.
 Schöntag, A. See Fischer, H.
 Schoental, R. See Berenblum, I.
 Schöpf, C., H. Wieland's work on natural nitrogenous substances (alkaloids and pterins), II, 18.
 Brass, (Miss) E., Jacobi, E., Jorde, W., Moenck, W., Neuroth, L., and Salzer, W., synthesis of 3-hydroxy-4-methoxy-(homoisovanillin) and 3:4-dihydroxy-phenyl-acetaldehyde (homoprotocatechualdehyde), II, 370.
 Jack-Tettweiler, I., Meyer, G., Perrey-Fehrenbach, H., and Winterhalder, L., derivatives of 3:4-dihydroxy-2-carboxy-phenylacetic acid, II, 368.
 and Koch, K., *Salamander* alkaloids. II. Samandarone and samandarine, minor alkaloids in poison of fire and alpine salamanders, II, 144.
 and Koch, K. [with Contzen, W.], *Salamander* alkaloids. III. Constitution of samandarine, II, 145.
 and Reichert, R. [with Rieftahl, K.], insect dyes. VIII. Leucopterin, II, 281.
 and Salzer, W., syntheses and transformations of natural substances under conditions possible in the cell. VIII. Biogenesis of 1-benzyl-1:2:3:4-tetrahydroisoquinoline alkaloids; synthesis of 6:7-dihydroxy-1:3:4'-methylelenedioxybenzyl-1:2:3:4-tetrahydroisoquinoline under conditions possible in the cell, II, 385.
 and Winterhalder, L., preparation of substituted phenylacetic acids, II, 366.
 Schofield, M., Henry Cavendish, I, 73.
 Scholander, P. F., determination of respiratory gases, III, 296.
 and Edwards, G. A., nitrogen clearance from blood and saliva by oxygen breathing, III, 871.
 Edwards, G. A., and Irving, L., improved micrometer burette, I, 240.
 Grinnell, S. W., and Irving, L., respiration of armadillo, with implications as to its burrowing, III, 380.
 Haagaard, N., and Irving, L., volumetric respirometer for aquatic animals, III, 780.
 and Roughton, F. J. W., simple micro-gasometric method of estimating carbon monoxide in blood, III, 791.
 See also Edwards, G. A., Irving, L., and Roughton, F. J. W.
 Scholes, J. C., experiments with X-rays on role of lymphocytes and body temperatures in resistance of chicks to *Salmonella pullorum*, III, 595.
 and Hutt, F. B., relationship between body temperature and genetic resistance to *Salmonella pullorum* in fowl, III, 543.
 Scholl, F., "Congo-red index" [in blood], III, 302.
 Schomaker, V. See Spurr, R., and Stevenson, D. P.
 Schonfeld, W. A., primary and secondary sexual characteristics: their development in males from birth through maturity, with biometric study of penis and testes, III, 738.
 Male pubescence, III, 891.
 School, A. G. See Alexander, L. J.
 Schooley, J. P. See Bates, R. W.
 Schopfer, W. H., growth factor requirements of *Rhizopus stolonifer* in an ammonium tartrate medium, III, 600. Alcoholic fermentation with *Rhizopus stolonifer*; inhibition of growth by aneurin, III, 771.
 Schorin, P., quantitative molecular spectral analysis, I, 51. Quantitative spectral analysis of molecules, II, 147.
 Schossberger, F. See Kratky, O.
- Schott, S. See Wheeler, R. E.
 Schottky, W., boundary surface rectifiers, I, 219.
 Schour, I., and Sarnet, B. G., oral occupational disease, III, 679.
 Schportenko, P. I., and Garan, V. F., substitution of calcium hydroxide for cadmium and zinc acetates in determination of sulphur by Schulte's method, I, 235.
 Schrader, A. See Hanemann, H.
 Schrader, A. L. See Griggs, W. H., and Kramer, A.
 Schrag, G. See Kubaschewski, O., and Weibke, F.
 Schramek, W., and Succolowsky, O., reaction between metal hydroxide solution and cellulose fibres. IV. X-Ray study of lattice changes in fibrous hydrocellulose regenerated from solutions of natural cellulose, I, 126.
 Schramm, G., enzymic fission of nucleic acid from tobacco mosaic virus, III, 914.
 and Müller, Hans, significance of amino-groups for multiplication of tobacco mosaic virus, III, 69.
 and Weber, H. H., monodisperse myosin solutions, III, 348.
 Schramm, J., systems zinc-cerium and zinc-lanthanum, I, 11. Partial system nickel-NiAl, I, 12.
 Schraub, A. See Rajewsky, B.
 Schraub, E. See Rajewsky, B.
 Schreiber, H. See Sonn, A.
 Schreider, E., changes in body weight in relation to constitution, III, 579.
 Schreiner, B. F., and Christy, C. J., irradiation treatment of cancer of lip, III, 199.
 See also Reinhard, M. C.
 Schrek, R., effect of high temperature and moccasin venom on viability of rabbit lymphocytes and polymorphonuclear leucocytes as determined by method of unstained cell counts, III, 788.
 Schrenk, H. H. See Oshry, H. I., Sayers, R. R., and Sievers, R. F.
 Schretzmair, H., intestinal bacteria in uncooked food, III, 355.
 Schreus, H. T., and Schummer, H., effect of protoporphyrin on autoxidation of l-ascorbic acid, III, 667.
 Schrewelius, N., X-ray analysis of thallium fluoantimonate, $TlSbF_6$, and isomorphous alkali compounds, I, 272.
 Schrire, T., arterial embolectomy, III, 92.
 Schrire, V., changes in plasma-inorganic phosphate associated with endocrine activity in *Xenopus laevis*. VI. Effect of gonadectomy, progesterone and oestradiol benzoate injections in normal and hypophysectomised animals and of injections of anterior pituitary extracts in ovariectomised animals. VII. Captivity and normal reproductive cycle, III, 28.
 Schroder, G. M., Satterfield, G. H., and Holmes, A. D., influence of variety, size, and degree of ripeness on ascorbic acid content of peaches, III, 578.
 Schrod, N. See Wengel, E.
 Schroeder, C. A., pollen germination in avocado, III, 614.
 Schröder, H., properties of optical glasses with chemically altered surfaces. II., I, 119.
 Schroeder, H. A., "essential" hypertension, III, 162.
 Schroeder, O. C. See Cromwell, N. H.
 Schröder, W., active substances. XLVI. Effect of heating γ -iron hydroxide, cadmium carbonate, and stoichiometric mixtures thereof. I. XLVII. Transformation and reaction processes during heating of γ -iron hydroxide, cadmium carbonate, and stoichiometric mixtures thereof. II., I, 233, 261.
 [with Schmäh, H.], transformation and reactions before and during formation of zinc-iron spinel from β -zinc hydroxide and γ -ferric hydroxide in presence of carbonates. I. Thermal behaviour of β -zinc hydroxide, I, 23.
- Schröder, W. See also Fricke, R.
 Schroeder, W. A., formation of pro-carotenoids in "monkey flowers" under some conditions, III, 219.
 Schroeder, W. T., and Walker, J. C., influence of controlled environment and nutrition on resistance of garden pea to fusarium wilt, III, 149.
 Schrödinger, E., dynamics and scattering-power of Born's electron, I, 110.
 Schröer, W., influence of drug and serum therapy on histological and bacteriological findings in gas gangrene infection in experimental animals, III, 194.
 See also Klose, F.
 Schtscheglova, N. A. See Levina, R. J.
 Schtschigol, M. B., determination of halogens, I, 313.
 Schutze, E. V. See Tschernichov, J. A.
 Schubert, A. See Gleu, K.
 Schubert, J., and Boyd, G. E., energy relations in film penetration, I, 199.
 Schubert, H., Sauton's tuberculin: its purification, III, 67.
 Schubladze, A. K., susceptibility of animals to influenza virus, III, 287.
 Schuck, C. See Purinton, H. J.
 Schüler, H., Gollnow, H., and Woeldike, A., production of emission spectra of organic molecules by electron collision in the glow discharge, I, 248.
 Schümmer, H., autoxidation of l-ascorbic acid, III, 667.
 See also Schreus, H. T.
 Schquette, H. A. See Kane, J. G.
 Schütze, H., and Piechowicz, T., solution equilibria in aqueous systems. III. System $NH_2CO_2NH_4 \cdot (NH_4)_2SO_4 \cdot NH_3 \cdot H_2O$, I, 154.
 Piechowicz, T., and Pustelnik, W., solution equilibria in aqueous systems. II. System $K \cdot NH_4 \cdot Na \cdot Cl \cdot HCO_3 \cdot H_2O$ at 20°, I, 154.
 Piechowicz, T., and Wahl, L., solution equilibria in aqueous systems. I. System $K \cdot NH_4 \cdot Na \cdot Cl \cdot NO_3 \cdot H_2O$ at 20°, I, 154.
 Schuh, R., metal carbonyls. XL. Absorption spectra of rhodium carbonyls, I, 271.
 See also Heiber, W.
 Schukina, L. A. See Shemiakin, M. M.
 Schulek, E., and Kovacs, bromatometric determination and quantitative purity testing of cinchona alkaloids containing the vinyl group, II, 348.
 Kovacs, J., and Rózsa, P., bromatometric determination of l-ascorbic acid (vitamin-C), II, 348.
 and Rózsa, P., determination of p-benzoquinone and assay of quinhydrone, II, 348.
 and Szeghő, F., volumetric solutions; preparation of exactly 0.1N-hydrochloric acid and 0.02N-sulphuric acid, I, 23.
 Schulman, J. H., and Schumb, W. C., polymorphism of arsenious oxide, I, 222.
 Schulte, H. See Beyer, H.
 Schulte, J. W., Shidler, F. P., and Niebauer, J. J., acute urinary suppression following sulphadiazine, III, 265.
 Schultin, A. I., theory of metal corrosion in solutions. I. and II., I, 158.
 Schultz, A. H., conditions for balancing head in primates, III, 299.
 Schultz, A. S. See Atkin, L.
 Schultz, E. W., and Gebhardt, L. P., chemical prophylaxis of experimental poliomyleitis, III, 68.
 and Robinson, F., *in vitro* resistance of poliomyleitis virus to chemical agents, III, 215.
 Schultz, F. H., jun., local anaesthetic properties of ephedrine hydrochloride, III, 910.
 and Barbour, P. H., jun., local anaesthetic properties of cinnamylephedrine, III, 512.
 Schultz, F. W. See Knott, E. M.
 Schultz, J., and Goldberg, M. A., photometric routine determination of traces of lead by dithizon; application to materials used in manufacture of cosmetics, I, 163.

- Schultz, M. L., and Lilek, E. F., absorption spectra of double salts containing cobaltous chloride, I, 114.
See also Freed, S.
- Schultz, R. C. See Sofin, L. H.
- Schultze, H. E., proteases of tetanus toxin and their relation to tetanus spasmin, III, 57.
- Schulz, G. V. macromolecular compounds. CCXCV. Distribution of mol. wts. in the degradation of chain molecules having regularly-placed weak points, I, 85. Kinetics of chain polymerisation. IX. Induction of polymerisation reactions by free radicals, I, 280.
- and Husemann, E. [with Lohmann, H. J.], macromolecular compounds. CCXCVI. Distribution of mol. wt. in degraded celluloses, and a periodic degradation principle in cellulose molecule, I, 85.
- and Jirgensons, B., solubility of substances of high mol. wt. VIII. Dependence of solubility on mol. wt., I, 60.
- and Nordt, E., macromolecular compounds. CCXL. Fractionation of multi-molecular substances by partition between two liquid phases, II, 347.
- See also Husemann, E.
- Schulz, H. See Menzel, H., and Rüdorff, W.
- Schulz, M., effect of kefir powder and "kefermon" on growth of lactic acid bacteria, III, 205.
- and Werner, W., vitamin-L₂ content of kefir granules, III, 255.
- Schulz, O., malformations of vertebral column, III, 297.
- Schulz, P., continuous radiation of high-pressure mercury discharge, I, 45.
See also Rompe, R.
- Schulz, R. Z., and Walter, C. W., magnesio-genous pneumonigranuloma, III, 346.
- and Williams, C. R., commercial talc: animal and mineralogical studies, III, 53.
- Schulze, A. See Krohnke, F.
- Schulze, J. W., and Boyden, E. A., blood supply and innervation of choledocho-duodenal junction in cat, III, 705.
- Schulze, M., granulosa cell tumour of ovary, III, 242.
- Schulze, R. See Hamperl, H., and Justi, E.
- Schumacher, H. J., photochemical reactions of halogens with aliphatic compounds. II., I, 159.
See also Meissner, H. P., Schmitz, H., and Stauff, J.
- Schumann, R. L., and Farrell, M. A., synthetic medium for cultivation of *Streptococcus faecalis*, III, 284.
- Schumann, F. See Chambers, L. A. and Franke, W.
- Schumann, S. C. See Aston, J. G.
- Schumann, W. See Ziegler, K.
- Schumb, W. C., and Rittner, E. S., polymorphism of bismuth trioxide, I, 252.
See also Schulman, J. H.
- Schurr, C. G., rehabilitation of uni-ocular patient, III, 875.
- Schnitz, S., hereditary corneal dystrophy, III,
- Schuurmans, P. See De Bruin, T. L.
- Schvetzov, B. S., and Gevorkian, C. O., thermo-chemical study of processes taking place during heating of kaolin, I, 308.
- Schwab, G. M., Agliardi, N., and Schwab-Agallidis, E., action of free radicals on para-hydrogen. III. Dipyridinium radicals, I, 204.
- and Drikos, G., kinetics of catalytic combustion of carbon monoxide on copper oxide; absolute calculation of catalytic reaction velocity, I, 66. Combustion of carbon monoxide on heopalite and on its components, I, 66.
- and Issidoridis, A., photochemical boundary surface action, I, 133.
- Schwab, J. L., Doan, C. A., Merino, C., Saslaw, S., and Woolpert, O. C., reactions of monkeys to *Strep. haemolyticus* C., III, 692.
- Schwab, J. L., Hudson, N. P., and Woolpert, O. C., attempts to propagate the virus of poliomyelitis in smaller laboratory animals, III, 776.
See also Doan, C. A., Merino, C., Saslaw, S., and Woolpert, O. C.
- Schwab, G. M., and Karkalos, B., conductivity of adsorptive charcoal, I, 309.
- Schwab, R. S. See Ruesch, J., and Viets, H. R.
- Schwab-Agallidis, E. See Schwab, G. M.
- Schwabe, E. L. See Matthews, C. S.
- Schwachman, H., and Gould, B. S., serum-phosphatase in experimental scurvy, III, 190.
- Schwaibold, J., Borchers, W., and Nagel, G., micro-determination of tin in biological material, III, 856.
- Schwartz, E., contact dermatitis from exposure to dyes, III, 532.
- Schwartz, G. M., exsolution in ore minerals, I, 171.
- Schwartz, H. G., and O'Leary, J. L., section of spinothalamic tract in medulla with observations on pain pathway, III, 872.
- Schwartz, L., dermatitis from airplane engine covers, III, 594.
- and Barlow, F. A., occurrence of chloracne from cutting oils, III, 425.
See also Mason, H. S.
- Schwartz, L. A., analysed case of essential hypertension, III, 93.
- Schwartz, M. C., photometric determination of silica in presence of phosphates, I, 99.
- and Morris, L. W., filter photometry, I, 166.
- Schwartz, R., and Velo de Ipola, R., acidity of cultures of tubercle bacillus and tuberculin activity, III, 850. Xanthoproteic reaction in cultures of human type tubercle bacillus and in tuberculin, III, 850.
- Schwartz, S. A., and Halberstam, C. A., duodenal ulcer in infancy, III, 653.
- Schwartz, S. O., and Legere, H., atypical pernicious anaemia of young adults, III, 862.
- Schwartz, S. P., transient ventricular fibrillation, III, 549.
- Schwartzman, G., and Bierman, W., even distribution of gases through bacterial cultures, III, 206.
See also Marburg, O.
- Schwartzman, J., pallor and anaemia in adolescents, III, 5.
- Dragutsky, D., and Grossman, L., true total hemihypertrophy, III, 297.
- and Grossman, L., Sydenham's chorea, III, 636.
- Schwarz, F. See Miescher, G.
- Schwarz, G. T., congenital grouped pigmentation of retina with maculocerebral degeneration, III, 473.
- Schwarz, H., Kohn, J. L., and Weiner, S. B., lipin nephrosis, III, 655.
- Schwarz, K., effect of pantothenic acid on growth in rats, III, 255. Achromotrichia from pantothenic acid deficiency; multiple actions of pantothenic acid, III, 255.
- Schwarz, K. E., transference phenomena in molten salts, I, 229.
- Schwarz, R., and Pflugmacher, A., halides of silicon. V. Silicon iodides, I, 135.
See also Faltis, F.
- Schwarz, U. See Thilo, E.
- Schwarzenbach, G., indicator having remarkable properties, I, 208. Acidity constants, resonance energies, and light absorption of simple dyes, I, 296.
- and Sulzberger, R., two protons in one step, I, 201.
- and Weber, R., molecular resonance systems. VIII. Intermediate products of fission of pyridine; simple, long-chained polymethine dye, II, 172.
- Schwarzschild, L. See Hecht, R.
- Schwarzschild, M., stellar rotation, I, 79.
- Schwarzschild, M. M., multiple cassette changer for angiography, III, 867.
- and Shelesnyak, M. C., continuous electronic pulse-rate indicator and recorder, III, 229.
See also Shelesnyak, M. C.
- Schweisheimer, W., health hazards in handling magnesium, III, 52.
- Schweitzer, C. E. See King, L. C.
- Schweitzer, M. D. See Wilson, M. G.
- Schweitzer, T. R. See Hoffman, C.
- Schweizer, C. See De Takats, G.
- Schweizer, M., Ehrenberg, A., and Gaunt, R., effects of adrenal and thyroid hormones on water exchange in hypophysectomised rats III, 884.
- Schwenk, E., and Bloch, E., modification of Willgerodt's reaction, II, 131. Preparation of β -6-keto-2-methyl- Δ^1 -cyclohexenyl-propionic acid, II, 135.
- Fleischer, G. A., and Tolksdorf, S., preparation of prolactin, III, 477.
- Moffett, R. B., Riegel, B., and Stahl, (Miss) E., preparation of homologues of 3-hydroxy-12-ketocholanic acid, II, 238.
See also Papa, D.
- Schwentker, F. F., Janney, J. H., and Gordon, J. E., epidemiology of scarlet fever, III, 849.
- Schwerin, P. See Hauroowitz, F.
- Schwerma, H., and Meyer, R. K., purification of antagonadotropic sera by enzymic digestion, III, 324.
- Schwiecker, W., ultra-violet radiation of a non-self-dependent gas discharge, I, 216.
- Schwimmer, S. See Kies, M. W.
- Schwind, J. L., bone-marrow in five-day treatment of syphilis, III, 835.
- and Hyde, G. M., Hodgkin's disease in infant, III, 87.
- See also Gorham, L. W.
- Schwob, C. [with Biegner, J. E., Carson, K. J., and Scott, G. V.], catalytic properties of charcoal. IV. Indophenol reaction, I, 39.
- Sciarini, L. J., Mull, R. P., Wirth, J. C., and Nord, F. F., relation between structure and action of xanthones on dehydrogenations by *Fusaria*, III, 600.
- Scobie, E. B. S., haemorrhagic disease of newborn, III, 626.
- Scobie, A. G., spectrochemical assay for traces of tungsten, I, 165.
- Scotcher, N. M. See Wien, R.
- Scott, A. B., Lingafelter, E. C., and Tartar, H. V., electrolytic properties of trimethyl-octylammonium octanesulphonate and trimethyldecylammonium decanesulphonate solutions, I, 200.
- and Tartar, H. V., electrolytic properties of solutions of paraffin-chain quaternary ammonium salts, I, 199.
- Scott, A. F., and Bennett, J. F., dioxanate of iodine pentafluoride, II, 102.
- Scott, A. R. See Urquijo, C. A.
- Scott, A. W., and Andrews, J. T., nitrophenyl-allylthiosemicarbazides; analytical properties, II, 128.
- and Wood, B. L., jun., hydroxylamine derivatives of anthranilic acid, II, 90.
- Scott, D. A., Charles, A. F., and Fisher, A. M., crystalline compounds of heparin, II, 115.
- and Fisher, A. M., crystalline compounds of insulin, III, 239.
- Scott, D. B. M. See Elliott, K. A. C., and Palmer, H. D.
- Scott, D. H., Waugh, J. G., and Cullinan, F. P., injurious effect of peach juice on germination of seed, III, 540.
- Scott, D. W. See Pitzer, K. S.
- Scott, E. See Crooks, A. C.
- Scott, E. M., and Sandstrom, W. M., activation of papain, III, 520.
- Scott, E. W., metabolism of mononitroparaffins. II. Metabolic products of nitroethane.
- III. Concentration of nitroethane, nitrite, and nitrate in the blood of rabbits during exposure by inhalation and oral administration, III, 761, 829.
- See also Machle, W.
- Scott, G. H. See Lansing, A. I.
- Scott, G. I. See Robson, J. M.
- Scott, G. V. See Schwob, C.
- Scott, H. C., toxic reactions to sulphathiazole, III, 584.

- Scott, J. R.**, and **Janeway, M. M.**, diet of medical admissions, III, 185.
Scott, L. B. See **Barr, E. S.**
Scott, L. C. See **Senekjé, H. A.**
Scott, L. D. See **Audrieth, L. F.**, and **Shoulders, H. S.**
Scott, L. E., instance of boron deficiency in the grape under field conditions, III, 537.
Scott, O. K. See **Warren, S.**
Scott, R. A. M., reactions to ephedrine, III, 511. Mineral and vitamin requirements in relation to war-time dietary, III, 821.
Scott, B. W., arterial hypertension, III, 462. See also **Rank, D. H.**
Scott, S. L. See **Fuson, R. C.**
Scott, T. F. M., Beeson, P. B., Hawley, W. L., Goode, W., Hathaway, E., and Jackson, E., sulphaguanidine in paratyphoid-B infection, III, 760.
Scott, V., antigenic substance in urine in syphilis, III, 693. See also **Lankford, C. E.**
Scott, V. B., Moe, R., and Brunschwig, A., gastric secretory depressant in gastric juice, III, 743. See also **Brunschwig, A.**
Scott, W. G., and **Lionberger, J. R.**, studies of pulmonary vessels by means of body-section radiography, III, 91.
Scott, W. T., and **Uhlenbeck, G. E.**, theory of cosmic-ray showers. II. Fluctuation problem, I, 112.
Scott, W. W., and **Huggins, C.**, acid phosphatase activity of human urine, an index of prostatic secretion, III, 244. and **Vermeulen, C.**, prostatic cancer. V. Excretion of 17-ketosteroids, oestrogens, and gonadotropins before and after castration, III, 123.
Scott-Watson, H. M. See **Folley, S. J.**
Scott, D. W., malignancies in infancy and childhood, III, 129.
Serudder, E. O. See **Buehler, C. A.**
Scudi, J. V., conjugated pyridoxine in rice bran concentrates, III, 130. and **Buhs, R. P.**, determination of tocopherols and tocopherolquinones by colorimetric oxidation-reduction method, II, 76.
and **Hamlin, M.**, effect of pantothenic acid deficiency on blood-lipins in dog, III, 410.
Scull, C. W., and **Pemberton, R.**, surface films formed by plasma and serum of patients with chronic arthritis, III, 865.
Scullen, H. A., relative humidity and nectar concentration in fireweed, III, 72.
Scully, J. P., and **Menten, M. L.**, treatment of influenzal meningitis with anti-influenzal rabbit serum and sulphapyridine, III, 135.
Scupham, G. W., De Takats, G., Van Dellen, T. R., and Marcus, P. L., vascular diseases, III, 92.
Seabury, R. See **Clark, G. L.**
Seager, G. F., geology of the Shasta copper belt, I, 324.
Seal, S. C., and **Johnson, S. J.**, purification of alum-precipitated diphtheria toxoid, III, 435.
Sealock, R. R., effect of dicarboxylic acid administration on excretion of tyrosine metabolites by guinea-pig, III, 337.
and **Livermore, A. H.**, vitamin-B complex of peeled wheat bread, III, 823.
Livermore, A. H., and **Evans, C. A.**, inactivation of aneurin by fresh-fish or Chastek-paralysis factor, III, 664.
Seastone, C. V., occurrence of mucoid polysaccharide in human haemolytic streptococci, III, 525.
Seaton, D. R. See **Gordon, R. M.**
Seaton, J. See **Smyth, H. F., jun.**
Sebesta, E. E. See **Cravens, W. W.**
Sebrell, W. H. See **Ashburn, L. L.**, Daft, F. S., Fraps, R. M., Lowry, J. V., and Spicer, S. S.
Seck, W., and **Fischer, G.**, starch gels, I, 277.
Secunda, L., and **Trowbridge, E. H.**, occurrence of polyneuritis and abnormal pupillary reactions in chronic alcoholism, III, 345.
W. S. See **Brokaw, K. F.**
- Seddon, H. J.**, and **Medawar, P. B.**, fibrin suture of human nerves, III, 163.
Sedgwick, W. F., theory of successive radioactive transformation, I, 111.
Sedlatschek, K., reactions of solid substances. CXXIX. Reducibility of iron oxide with hydrogen in presence of foreign gases, I, 94.
Seledzki, I. D., colloid-dispersion mineralogy, I, 75. Subdivision of colloid-dispersed minerals of montmorillonite group, I, 75. Paragenetic groups of minerals in principal types of soils, I, 108. and **Schmakova, G. V.**, thermal characteristics of humic acids, I, 76.
Seebeck, E., and **Reichstein, T.**, bile acids and related substances. XXI. 12-Keto-3(a)-acetoxy- and 3(a)-hydroxy- Δ^9 -cholenic acid, II, 237.
Seeberg, V. P., elixir of sodium barbital, III, 676. and **Dille, J. M.**, comparative rate of gastrointestinal absorption of barbital, sodium barbital, and elixir of barbital N.F. VII, III, 676.
Seed, L. See **Anderson, E. R.**, and **Brunner, R.**
Seegar, G. E., and **Jones, H. W.**, ovarian tumours and uterine bleeding. I. Granulosa cell tumours, III, 333.
Seegers, W. H., convenient arrangement for rapid dialysis, I, 320. Quantity of thrombin required to clot heparin-plasma mixtures, III, 302.
Brinkhous, K. M., Smith, H. P., and Warner, E. D., heparin and antithrombic activity of plasma, III, 458.
and **McGinty, D. A.**, purification of thrombin, III, 302.
and **Smith, H. P.**, activity of purified thrombin, III, 625. Antithrombic activity of plasma: quantitative inter-relationships, III, 788.
Seelemann, M., *Streptococcus bombycis* of silkworm—a group-D enterococcus, III, 525. and **Flint, A.**, group C haemolytic streptococci, III, 147. Group A haemolytic streptococci, III, 147.
Seeler, A. O., Dusenberry, E. D., and Graessle, O., effect of *p*-aminobenzoic acid on chemotherapeutic activity of sulphonamides in lymphogranuloma venereum and in duck malaria, III, 830.
Dusenberry, E. D., and **Malanga, C.**, activity of quinine, quinidine, cinchonine, cinchonidine, and quinoidine against *Plasmodium lophurae* infections of Pekin ducklings, III, 761.
Seeliger, R., theory of cathodic sputtering, I, 78. Occlusion of inert gases by metals, I, 89. Theory of electronic plasma vibrations, I, 214. See also **Neumann, H.**, and **Rossbach, P.**
Seemann, H., regular surfaces for space lattice interferences and their most important plane sections as single-crystal diagram curves, I, 82. Wide-angle diagram with X-ray or electron beams as a reciprocal lattice diagram of atomic texture of crystals, I, 250.
Seemüller, H., spontaneous tetanus antitoxin in [Swiss] cattle, III, 607.
Seever, M. H. See **Barbour, J. H.**, and **Cassells, W. H.**
Segal, H. I. See **Colton, N. H.**
Segall, H. N., and **Goldblum, A. A.**, atrioventricular nodal paroxysmal tachycardia in infant treated with acetyl- β -methylcholine, III, 8.
Segaloff, A., effect of α -estradiol 3-benzoate on response of *CHI* mice to 20-methyl-cholanthrene, III, 489.
and **Nelson, W. O.**, action of synthetic steroids on adrenalectomised immature rat, III, 390.
Segalove, M., and **Dack, G. M.**, relation of time and temperature to growth and enterotoxin production of staphylococci, III, 213.
Segebrecht, E. W. See **Ralston, A. W.**
Segel, N. M. See **Starik, I. E.**
- Segura, A. S.** See **Amuchástegui, S. R.**
Seib, A. See **Ziegler, K.**
Seibert, (Miss) F. B., chemistry of proteins of acid-fast bacilli, III, 207. and **Nelson, J. Walter**, proteins of tuberculin, II, 211.
Nelson, J. Walter, and **Seibert, M. V.**, correlation of extent of tuberculosis with amount of polysaccharide in serum, III, 851.
Seibert, M. V. See **Seibert, (Miss) F. B.**
Seibert, W. See **Wieland, H.**
Seidel, C. F. See **Schinz, H.**
Seidemann, H. See **Brill, N. Q.**
Seidl, F., electrical conductivity of liquid dielectrics and its variation by ultrasonic waves, I, 222.
Seidman, L. R. See **Mueller, J. H.**
Seifert, R. See **Bieche, A.**
Seiler, K., obtaining helium temperatures without using specially liquefied hydrogen, I, 238.
Seitz, F., darkening of materials by light, I, 178.
Seiwert, R. See **Prelog, V.**
Sekora, A. See **Kratky, O.**
Seibie, F. R. See **McIntosh, J.**
Seligman, A. M., modified electroscope especially suited for measuring substances with low energy radiation, III, 780.
and **Fine, J.**, production of radioactive plasma-protein from amino-acids containing radioactive sulphur, III, 626. "Lost plasma" in haemorrhagic shock studied by use of radioactive plasma-protein, III, 626.
Butenburg, A. M., and **Banks, H.**, preparation of cystine, methionine, and homocystine containing radioactive sulphur, II, 355. See also **Davis, W. A.**
Selikson, B., and **Ricci, J. E.**, system sodium nitrate-dioxan-water at 25°, I, 62.
Selle, W. A., effects of chemical agents on survival of primitive respiratory mechanism, III, 307.
Sellers, T. F. See **Webb, E. L.**
Selling, L. S., ophthalmologist's place in prevention of traffic accidents, III, 309.
Sells, R. L. See **Diddle, A. W.**
Sellschopp, U. See **Kanitz, H. R.**
Selpen, S. von der. See **Koschara, W.**
Seltz, H., Dunkerley, F. J., and De Witt, B. J., heat capacities and entropies of molybdenum and tungsten trioxides, I, 196.
Seltzer, C. C., and **Brouha, L.**, the "masculine" component and physical fitness, III, 766.
Selwood, P. W., copper mirrors, I, 160. and **Preckel, R. F.**, disproportionation of diphenyl- α -tolylmethyl, II, 258.
Selye, H., parathyroid hormone action, III, 108. Deviating entire urine into blood stream, III, 126. Production of nephrosclerosis by overdosage with deoxycorticosterone acetate, III, 379. Rôle of gastro-intestinal tract in absorption and excretion of riboflavin, III, 409. Pharmacology of steroid hormones and their derivatives, III, 482. Production of testis atrophy by steroids, III, 563. Development of scrotum, III, 651. Pituitary colloid secretion, III, 708. Rôle of bile in absorption of steroids, III, 805.
and **Albert, S.**, effect of steroids in intact male rats, III, 394. Morphogenetic actions of steroids in castrate male rat, III, 394.
Borduas, A., and **Masson, G.**, rôle of progesterone and local trauma in production of cystic-glandular changes in endometrium and hypertrophy of myometrium, III, 173.
and **Dosne, C.**, changes in chemical composition of blood coming from damaged tissues, III, 548. Influence of steroid hormones on metabolism of chlorides, III, 652.
and **Hall, C. E.**, pathologic changes induced by overdosage with deoxycorticosterone, III, 807.

- Selye, H., Hall, C. E., and Rowley, E. M., malignant hypertension produced by treatment with deoxycorticosterone acetate and sodium chloride, III, 869.
- and Masson, G., luteoid action of steroid hormones, III, 482.
- and Stone, H., role of sodium chloride in production of nephrosclerosis by steroids, III, 816.
- See also Albert, S., Beaulieu, R., Clarke, E., Leblond, C. P., and Masson, G.
- Semeniuk, G., dissimilation of glucose by *Chaetomium funicola*, Cke. II. Influence of modifications in composition of Czapek-Dox medium on rate of glucose dissimilation, III, 919.
- Sementschenko, V. K., generalisation of Gibbs-Curie theorem for mixed crystals, I, 122.
- and Schischabalova, L. P., effect of impurities on crystallisation, I, 11.
- Semerano, G., and Riccoboni, L., differential polarography and polarometry, I, 210.
- Semisch, C. W. See Nye, R. B.
- Seemens, C. S., improved cytological methods with crystal-violet, III, 158.
- Sen, A., wind-borne dust collected in May, 1942, I, 211.
- See also Chatterjee, B.
- Sen, B. K., volume rectification of crystals, I, 147.
- Sen, K. C. See Mukherjee, N.
- Sen, P. B. See Bose, P. K.
- Sen, S. C. See Singh, B. K.
- Sen, S. N., composition of peptone. II, III, 144.
- Sen-Gupta, S. C., dehydrogenation. VII., II, 225.
- Senderey, S., rapid oedema during perfusion of hypophysectomised frogs, III, 736.
- Sendroy, J., jun., photo-electric micro-determination of calcium in serum, III, 548.
- See also Val Dez, F. C.
- Senekjje, H. A., effect of sulphanilamide and trypaflavin on cultures of *Leishmania tropica*, III, 132. Slide agglutination and intradermal tests in experimental *Trypanosoma cruzi* infections, III, 771.
- and Scott, L. C., microcataphoresis of animal parasites, III, 353.
- Seng, M. I. See MacKenzie, D. W.
- Sensenig, E. C., origin of vertebral column in deer-mouse, *Peromyscus maniculatus*, III, 782.
- Sensicle, L. H., nuclear structure of the elements, I, 79, 215.
- Senturia, B. H., Silverman, S. R., and Harrison, C. E., hearing aid clinic, III, 556.
- and Thea, A. R., bone conduction in audiology. I, III, 318.
- Seppi, L. J. See Schirmer, F. B., jun.
- Sepulveda, J., and Croxatto, H., action of pentamethylenetetrazole on crossed extensor reflex in frogs, III, 640. Action of pentamethylenetetrazole on choline-esterase activity of spinal cord of *Bufo gayi*, III, 724.
- Serantes, M. E. See Cardini, C. E.
- Serber, R., and Dancoff, S. M., strong coupling mesotron theory of nuclear forces, I, 190.
- Serdakov, A. S. See Shdanov, H. S.
- Seren, L., cloud-chamber study of collision electrons in equilibrium with mesons, I, 4.
- Sergeev, S. V. See Poljak, E. V.
- Seroni, C., and Marchetti, E., preparation of progesterone by oxidising cholesterol with hydrogen peroxide, II, 137.
- Seshadri, T. R., and Venkateswarlu, V., benzopyrone series. VII. Stages in synthesis of karanjin, II, 170.
- See also Krishnaswamy, B., Murty, P. B. R., Murty, G. V. L. N., Murty, K. S., Neelakantam, K., Rangaswami, S., Rao, P. S., Row, L. R., and Sastry, V. V. K.
- Seshagrirao, P., and Giri, K. V., inhibition of β -amylase by vitamin-C, III, 427.
- Sesler, C. L. See Hamburger, M., jun., Schmidt, L. H., and Stahly, G. L.
- Seth, J. B., and Rao, C. V. H., linearity of mass scale of Aston's mass spectograph, I, 43.
- Sethna, S. M. See Trivedi, P. L.
- Settmacher, O., copper-bearing coal seams of Potschendorf and bituminous coal occurrences at Liebenau (Sudetenland), I, 28.
- Sevag, M. G., properties of *p*-hydroxylaminobenzenesulphonamide and a related molecular complex, II, 158.
- and Shelburne, M., cyanide-sensitive bacterial respiratory systems different from usual cytochrome-cytochrome oxidase system, III, 147. Respiration of *Streptococcus pyogenes*. I. Optimal conditions of respiration. II. Inhibition of respiration and growth by sulphanilamide; inhibition of respiration by hydroxylamine and its sulphonamide and other derivatives. III. Bearing of respiration on existing theories of mechanism of action of the chemotherapeutic agents, III, 285.
- See also Smolens, J.
- Sebastianov, N. G., and Shdanov, H. S., X-ray examination of *d*-pyramic acid, $C_{20}H_{30}O_2$, I, 54.
- See also Shdanov, H. S.
- Severac, M. See Beerman, H., and Raiziss, G. W.
- Severin, E., arthrograms of hip joints in children, III, 857.
- Severson, G. M. See Kerr, R. W.
- Sekvet, F., effects of reduced oxygen tension on development of early chick embryos, III, 783.
- Sevringshaus, A. E. See Levin, L.
- Sevringshaus, E. L., and St. John, R., oral use of conjugated oestrogens-equine, III, 648.
- See also Lauson, H. D.
- Sewell, R. L., conservative surgery with irradiation in gas gangrene infection, III, 280.
- Sexton, D. L., emaciation and endocrine dysfunction, III, 556.
- Sexton, E. L. See Mehl, J. W.
- Seymour, W. B. See Shipley, R. A.
- Sezer, Z. See Duquénois, P.
- Shaar, C. M. See Friedell, M. T.
- Shack, J., cytochrome oxidase and *d*-amino-acid oxidase in tumour tissue, III, 490.
- Shackleton, J. W. See Marvel, C. S.
- Shackleton, R. P. W. See Gordon, R. A.
- Shadaksharawamy, M. See Manjunath, B. L.
- Shafer, H. M. See Price, C. C.
- Shaffer, B. See Beerman, H.
- Shaffer, C. B. See Drill, V. A., Smyth, H. F., jun., and Strickler, H. S.
- Shaffer, J. H., tularæmia; cases with unusual contacts, III, 848.
- See also Bradfورد, H. A.
- Shaffer, M. F., Rake, G., and Hodes, H. L., isolation of virus from a patient with fatal encephalitis complicating measles, III, 440.
- See also Maris, E. P., and Stokes, J., jun.
- Shaffer, W. H. See Nielsen, H. H.
- Shaffner, C. S., and Andrews, F. N., determination of concentration of spermatozoa in fowl and bull semen, III, 742.
- Shaffrath, M. D. See Howitt, V. F.
- Shapiro, B. G. P., Doubilet, H., Ruggiero, W. F., Preiss, A. P., and Co Tui, effect of lymphatic block on bile resorption in obstructive jaundice, III, 247.
- Shah, M. S. See Oza, T. M.
- Shah, N. M., 5-hydroxycoumarins. I. Chalkones from 5-hydroxy-6-acetyl-4-methylcoumarin, II, 138.
- and Deliwala, C. V., benzoylation of 5-hydroxy-6-acylcoumarins in presence of pyridine, II, 171.
- See also Chudgar, M. C., Deliwala, C. V., and Shah, R. H.
- Shah, R. C., Virkar, V. V., and Venkataraman, K., constitution of calycopterin, yellow colouring matter of leaves of *Calycopteris floribunda*, II, 381.
- See also Acharya, B. G. S., Parekh, N. B., Radha, (Miss) K. S., Trivedi, P. L., and Virkar, V. V.
- Shah, R. H., and Shah, N. M., condensation of α -substituted acetoacetates with phenols. VI. Condensation of phenols with ethyl acetosuccinate. VII. Condensation of substituted phenols with ethyl acetosuccinate. VIII. Condensation of *C*-alkylresorcinols and ethylpyrogallol with ethyl acetosuccinate. II, 240, 273.
- Shah, S. V. See Airan, J. W., and Rege, A. V.
- Shahrokh, B. K., micro-determination of iodine in biological materials, III, 364.
- Shaikhamahud, H. S. See Linnell, W. H.
- Shalit, P. R. See Breslow, L.
- Shambaugh, G. E., and Wojniak, F., chronic progressive deafness, including otosclerosis and diseases of inner ear, III, 643.
- Shambaugh, P., silk [operation] technique, III, 399.
- Shamleffer, V. J. See Muir, R. D.
- Shand, W., jun., and Spurr, R. A., molecular structure of ozone, I, 146.
- Shank, R. E. See Hosgland, C. L.
- Shanklin, W. M., presence of nerve cells in neurohypophysis of dog, III, 300. Hortega silver carbonate staining of pituicytes, III, 452.
- Shannon, E. W. See Nosik, W. A.
- Shannon, J. A., control of renal excretion of water. I. Effect of variations in state of hydration on water excretion in dogs with diabetes insipidus. II. Rate of liberation of posterior pituitary antidiuretic hormone in dogs, III, 487.
- Shannon, W. R., treatment of tetany in severely traumatised newborn, III, 557.
- Shantz, E. M., Cawley, J. D., and Embree, N. D., anhydro-("cyclised") vitamin-A, II, 257.
- See also Embree, N. D., and Jensen, J. L.
- Shapin, J. M. See Sanford, H. N.
- Shapira, T. M., and Sitney, J. A., choroideraemia, III, 471.
- Shapiro, B., and Wertheimer, E., fatty acid dehydrogenase in adipose tissue, III, 426. Phosphorylysis and synthesis of glycogen in animal tissues, III, 828.
- Shapiro, E., and Newton, R. F., resolution of enantiomorphs. II. Liquid-liquid extraction, II, 229.
- Shapiro, H. A., vitamin-D content of preparations of South African interest, III, 191.
- See also Meyer, A. A.
- Shapiro, I. M. See Lamanna, C.
- Shapiro, J., adaptation of photo-electric colorimeter to determination of alcohol in blood and urine, III, 296.
- Shapiro, N. See Maher, M. M.
- Shapiro, S., Redish, M. H., and Campbell, H. A., effect of vitamin-K on hypoprothrombinaemia induced by dicumerol in man, III, 713.
- Ross, V., and Moore, D. H., viscous protein obtained in large amount from serum of patient with multiple myeloma, III, 627.
- and Sherwin, B., prevention of embolism by use of dicoumarol [3:3'-methylenebis-(4-hydroxycoumarin)], III, 457.
- Shapiro, S. H. See McElvain, S. M.
- Shapiro, D. G., lethal action of short ultra-violet rays on pathogenic bacteria, III, 205.
- Beard, D., Beard, J. W., and Taylor, A. R., electron micrography of Western strain equine encephalomyelitis virus, III, 358.
- See also Taylor, A. R.
- Sharp, R., abnormal pregnancy, III, 119.
- Sharp, W., Sutherland, M. M. J., and Wilson, F. J., preparation and therapeutic properties of acridine derivatives. III. 5-Styryl-acridines and their quaternary salts, II, 105.
- Sutherland, M. M. J., Wilson, F. J., Browning, C. H., and Calver, K. M., preparation and therapeutic properties of acridine derivatives. IV. 5-Methyl-acridines, further 5-styryl-acridines, and their quaternary salts, II, 339.
- Sharpe, J. C., and Tollman, J. P., refractory haemolytic anaemia. III. 5.

- Sharpey-Schafer, E. P., Wallace, J., Latham, A., and Pincock, A. C., circulation and rapid intravenous injection, III, 377.
See also McMichael, J.
- Sharpless, G. R., diet and epithelial hyperplasia in fore-stomach of rats and mice, III, 818.
and Anthony, E. K., effect of chloride with high and low iodine supply on thyroid gland of the rat, III, 821.
- Anthony, E. K., Argetsinger, H. L., and Sabol, M., goitrogenic action of calcium and vitamin-D, III, 476.
and Sabol, M., choline and pyridoxine as factors in prevention of epithelial hyperplasia in the fore-stomach of rats fed white flour, III, 408.
- Sharrah, P. C., and Gingrich, W. S., diffraction of X-rays by liquid oxygen, I, 7.
- Shattock, P. M. F., field and laboratory observations on mastitis, III, 831.
See also Mattick, A. T. R.
- Shaughnessy, H. J., producing increased carbon dioxide tension in individual culture tubes and flasks, III, 205.
See also Green, M. N., Richmond, J. J., and Rumreich, A. S.
- Shavel, J., jun. See Folkers, K.
- Shaw, B. T., nature of colloidal clay as revealed by electron microscope, I, 126.
- Shaw, G. E., preparation of precipitated tuberculin, III, 67.
and Hind, H. G., drying of plasma and sera, III, 76.
See also Davis, L. J.
- Shaw, H. See Montgomery, H. B. S.
- Shaw, J. A., determinations of low concentrations of oxygen in gas, I, 98.
- Shaw, J. C., and Petersen, W. E., utilisation of β -hydroxybutyric acid by perfused lactating mammary gland, III, 650.
- Powell, R. C., jun., and White, G. C., ketosis in dairy cattle. IV. Effect of glucose and pasture feeding in clinical ketosis, III, 129.
See also Petersen, W. E., and Powell, R. C., jun.
- Shaw, J. H., and Phillips, P. H., acute biotin deficiency in rat, III, 501.
- Shaw, N. G. See Butler, C. D.
- Shaw, T. M., elimination of errors due to electrode polarisation in measurements of dielectric constants of electrolytes, I, 18.
- Shazby, J. H., sensory energy, with reference to vision and colour-vision, III, 554.
- Shay, H., Fels, S. S., and Gershon-Cohen, J., local mechanism for gastric motor and secretory control and alteration of these functions in uncomplicated duodenal ulcer, III, 124.
- Fels, S. S., Gershon-Cohen, J., and Siplet, H., influence of glucose on response of human stomach to test meals, III, 176. Physiological basis for dietetic therapy in duodenal ulcer, III, 564.
- Shdanov, A. P., and Serdakov, A. S., number of slow neutrons in cosmic radiation, I, 112.
- Shdanov, G. S., X-ray methods of determining size and shape of submicroscopic crystals, I, 318.
- Shdanov, H. S., and Sevastianov, N. G., crystal structure of boron carbide, B_4C , I, 82.
See also Barchatov, V., and Sevastianov, N. G.
- Shianov, S. P., peculiarities of winter hydrochemical regime of Volga River in 1939 and 1940, and their causes, I, 140.
- Shdanova, L. P., plant content of minor growth substances as affected by vernalisation and photoperiodism, III, 293.
See also Tschajlachjan, M. C.
- Shear, M. J. See Leiter, J.
- Shechmeister, I. L. See Salle, A. J.
- Shednov, V. H., final developmental processes in region of foramen ovale of embryonic hearts of higher mammals and man, III, 154.
- Shedlovsky, T., electrical conductivity of sodium and potassium guaiacoxides in guaiacol, I, 130. Criteria of purity of proteins, III, 596.
- Shedlovsky, T., Rothen, A., and Smadel, J. E., LS-antigen of vaccinia. III. Physical-chemical properties and degradation products, III, 359.
and Smadel, J. E., LS-antigen of vaccinia. II. Isolation of a single substance containing both L and S-activity, III, 530.
See also Beckman, W. M., Goebel, W. F., and Smadel, J. E.
- Sheehan, D., relationship of hypothalamus to large bowel, III, 178.
and Labate, J. S., effect of nicotine on uterine responses to hypogastric nerve stimulation, III, 639.
and Pick, J., rami communicantes in rhesus monkey, III, 165.
- Sheehan, H. L., and Ferguson, A. G., sulphonamides in impetigo contagiosa, III, 906.
and McLetchie, N. G. B., Simmonds' disease due to post-partum necrosis of anterior pituitary, III, 391.
See also Dunn, J. S.
- Sheets, O., Leonard, O. A., and Gieger, M., distribution of minerals and vitamins in different parts of leafy vegetables, III, 294.
- Sheffield, E. See French, H. S.
- Shefts, L. M. See Forsee, J. H.
- Sheibley, F. E., Carl Julius Fritzsche and discovery of anthranilic acid, 1841, I, 288.
- Shelanski, H. A. See Cantor, A.
- Shelburne, M. See Sevag, M. G.
- Sheldon, A. J., and Groover, M. E., jun., acquired immunity in human hookworm (*Necator americanus*) infections, III, 71.
- Sheldon, W. H., mixed tumours of salivary glands, III, 403.
and Hertig, A. T., bilateral cortical necrosis of kidney, III, 180.
- Shelesnyak, M. C., Biskind, M. S., and Schwarzschild, M. M., vacuum-operated continuous extractor, I, 187.
See also Schwarzschild, M. M.
- Sheline, G. E., Chaikoff, I. L., Jones, H. B., and Montgomery, M. L., metabolism of zinc with aid of its radioactive isotope. I. Excretion of administered zinc in urine and faeces. II. Distribution of administered radioactive zinc in tissues of mice and dogs, III, 580, 829.
- Shelley, W. B., Hodgkins, M. P., and Visscher, M. B., toxicity of protamine, III, 52.
and Tarail, R., hepatic vascular occlusion following lethal doses of salmine sulphate, III, 815.
- Shelton, E. K. See Tager, B. N.
- Shema, B. F., and Appling, J. W., increased resistance of *Aerobacter aerogenes* to sodium pentachlorophenoxyde, III, 919.
- Shemiakin, M. M., Schukina, L. A., and Shvezov, J. B., biological action of vitamin-K and its synthetic analogues, III, 755.
- Shemin, D., and Sproul, E. E., transmissible agent of chicken sarcoma I; isolation of virus from basic protein-virus complex, III, 128.
See also Herbst, R. M.
- Shen, C. W., and Chen, H. N., preparation of 2-p-aminobenzenesulphonamidopuridine, II, 276.
- Shen, S. C., neural induction by chemical stimulation, III, 543.
- Shen, S. S. See Chen, Y. C.
- Shepard, F. P. See Dietz, R. S.
- Shepherd, A. D. See Biale, J. B.
- Shepherd, M. L. See Hummel, F. C., and Williams, H. H.
- Shepherd, R. G., Bratton, A. C., and Blanchard, K. C., properties of nitrogen-carbon-nitrogen system in N^1 -heterocyclic sulphanilamides, II, 109.
See also Marshall, E. K.
- Sheppard, C. W., multiple scattering of fast electrons, I, 47.
- Sheppard, S. E., effects of environment and aggregation on the absorption spectra of dyes, I, 192.
- Brigham, H. R., and Newsome, P. T., effects of solvents on absorption spectra of dyes. I. Polymethine dyes, I, 114.
- Sheppard, S. E., Lambert, R. H., and Walker, R. D., optical sensitising of silver halides by dyes. IV. Optical sensitising properties of fluorescein dyes in relation to their spectral absorption and constitution, I, 232.
- and Newsome, P. T., effects of solvents on absorption spectra of dyes. II. Dyes other than cyanines, I, 114.
- Sher, B. C., and Sweany, H. C., chemical factors influencing growth of tubercle bacilli. I. Metal catalysts, III, 213.
- Sherman, H. C., and Ragan, M. S., distribution of phosphorus and calcium in fruits and vegetables, III, 218.
See also Ellis, L. N., Jolliffe, N., Little, R. W., and Rohrer, A. B.
- Sherman, J. M., and Naylor, H. B., ageing without reproduction and viability of young bacterial cells at low temperatures, III, 280.
- Niven, C. F., jun., and Smiley, K. L., *Streptococcus salivarius* and other non-haemolytic streptococci of human throat, III, 775.
See also Gunsalus, I. C., Niven, C. F., jun., Smiley, K. L., and Smith, P. A.
- Sherman, M. S. See Horner, C. K., and Kato, K.
- Sherman, W. B., reactions of ragweed-sensitive individuals to skin tests with nucleic acids and related compounds, III, 532.
See also Stull, A.
- Sherrick, J. W., immediate postpartum haemorrhage, III, 326.
- Sherrill, M. S., King, C. B., and Spooner, R. C., oxidation potential of cerous-ceric perchlorates, I, 155.
- Sherry, P. G. See Algar, J.
- Sherwin, B. See Shapiro, S.
- Sherwood, C. See Mishulow, L.
- Sheth, V. T., aqueous solutions of aluminium oxide in alkali hydroxides, I, 123.
- Shettles, L. B. See Hellman, L. M.
- Shiah, C. D., vapour-liquid equilibria for hydrocarbons, I, 197.
- Shidler, F. P. See Schulte, J. W.
- Shields, J. B. See Mitchell, H. H.
- Shiels, E. M. See Welch, A. D.
- Shirfin, L. A. See Ritter, J. S.
- Shigalov, V. P. See Smorodincev, I. A.
- Shigehara, H. See Sugawara, S.
- Shigley, J. F. See Thorp, W. T. S.
- Shillito, F. H., Chamberlain, F. L., and Levy, R. L., signs in cardiac infarction, III, 90.
- Shils, M. E., and McCollum, E. V., trace elements in nutrition, III, 574.
- Shimanoti, F. See Suginome, H.
- Shimizu, K. F., and Kelly, E. A., determination of iodine in presence of interfering substances, I, 23.
- Shimkin, M. B., Crigler, C. W., and Zon, L., blood-histamine in gastric cancer and peptic ulcer, III, 866.
and Zon, L., absorption of subcutaneously implanted pellets of diethylstilboestrol in men, III, 489. Role of thrombocytopenia in haemorrhage produced in sarcoma 37, III, 492.
See also Andervont, H. B., Bryan, W. R., and Leiter, J.
- Shimotori, N., and Morgan, A. F., vitamin-D action in dogs shown by radioactive phosphorus, III, 336.
See also Morgan, A. F.
- Shiner, I. S. See Thompson, S. A.
- Shinkai, M. See Kawai, S.
- Shinn, L. A. See Nicolet, B. H.
- Shinomiya, C., and Asahina, T., fusion surface of ternary system of organic compounds. II, I, 16.
- Shipley, R. A., metabolism of nitrogen and acetone bodies in fasting hypophysectomised rats after low-protein diet, III, 337. Comparison of thermostability of growth and ketogenic activities of anterior pituitary extract, III, 391.
and Seymour, W. B., ultra-filtration of anterior pituitary ketogenic and growth principles, III, 391.

- Shipley, R. E., Gregg, D. E., and Wearn, J. T., operative mechanism of errors in application of thermostromohr method to measurement of blood flow, III, 802.
See also Gregg, D. E.
- Shirsat, M. V. See Ganapathi, K.
- Shive, J. W. See Pepkowitz, L. P.
- Shivers, J. C., and Hauser, C. R., *tert*-butyl benzoylisobutyrate, II, 265.
See also Abramovitch, B.
- Shlaer, S. See Hecht, S.
- Shleser, I. H., and Freed, S. C., effect of peptone on capillary permeability, III, 719.
and Langendorf, R., significance of so-called *P*-pulmonale pattern in electrocardiogram, III, 161.
- Shmigelsky, I. See Sanford, H. N.
- Shmuk, A. A., and Borodzina, A., alkaloids of plant species within the genus *Nicotiana*, II, 144.
- Shock, D., and Fogelson, S. J., effect of protein denaturant on histamine ulcers of stomach, III, 123.
- Shock, N. W., standard values for basal oxygen consumption in adolescents, III, 44.
and Morales, M. F., fundamental form for differential equation of colonial and organism growth, III, 225.
and Solen, M. H., effect of lowered oxygen tension of inspired air on respiratory response of normal subjects to CO₂, III, 721.
- Shoemaker, R. E., pseudoisochromatic plate test of colour vision, III, 804.
- Shohl, A. T., nitrogen storage following intravenous and oral administration of casein hydrolysate to infants with acute gastrointestinal disturbance, III, 669.
- Shomate, C. H., heat of formation of manganese-manganic oxide and manganese dioxide, I, 228.
- Shooter, R. A., preparation of grouping serum, III, 711.
- Shope, R. E., swine lungworm as reservoir and intermediate host for swine influenza virus. III. Transmission of virus and provocation of influenza. IV. Demonstration of masked swine influenza virus in lungworm larvae and swine under natural conditions, III, 358.
- Shoppee, C. W. and Prins, D. A., constituents of the adrenal cortex and related compounds. LVII. 17-Hydroxy-20-ketosteroids and the mechanism of their rearrangement into polyhydrochrysene derivatives. LVIII. Rearrangement of 17-hydroxy-20-ketosteroids into polyhydrochrysene derivatives; acetylations in the presence of boron fluoride, II, 200, 201. Isomerisation of 17-hydroxy-20-ketosteroids. III, II, 270.
and Reichstein, T., diginin. II. Constitution of diginose, II, 154. Constituents of the adrenal cortex and related substances. LXIII. II-*epi*Corticosterone acetate and two isomeric anhydrocorticosterone acetates, II, 376.
- Shore, B. R., carcinoma of breast, III, 493.
- Shorr, E., Almy, T. P., Sloan, M. H., Taussky, H., and Toscani, V., relation between urinary excretion of citric acid and calcium; implications for urinary calcium stone formation, III, 487.
- Bernheim, A. R., and Taussky, H., relation of urinary citric acid excretion to menstrual cycle and steroid reproductive hormones, III, 116.
- Short, W. F. See Coulthard, C. E., and Peak, D. A.
- Shoulders, H. S., Turner, E. L., Scott, L. D., and Grant, W. H., effect of combined fever and X-ray therapy in far-advanced malignant growth, III, 54.
- Shover, J. See East, T. H.
- Showalter, R. K. See Stair, E. C.
- Showers, R. M., measuring small electric charges, I, 265.
- Shrader, J. C., Young, J. M., and Page, I. H., pyelograms in patients with essential and malignant hypertension, III, 486.
- Shrewsbury, C. L. See Barrick, E. R.
- Shrimpton, E. A. G., biological assay of crystalline vitamin-B₁, aneurin hydrochloride, by the rat-growth method, III, 824.
- Shrine, R. L., and Stephenson, R. W., synthesis of tectorigenin dimethyl ether, II, 171.
- Shryock, E. H. See Messinger, R. F.
- Shu, I. K. C., See Snapper, I.
- Shuart, C. E., Lepart, O. L., and Bartlett, J. W., comparison of artificial and natural service in heifers when bred to the same sire, III, 479.
See also Dunn, H. O.
- Shuchovitzki, A., Zabeshinski, J., and Venitschkin, A., rate of molecular sorption on active charcoal, I, 13.
- Shukers, C. F., and Day, P. L., effects of inanition and riboflavin deficiency on blood picture of the rat, III, 665.
- Shukoff, R. I., use of desiccated chick embryo in tissue culture, III, 80.
- Shuler, R. H., Ensor, C., Gunning, R. E., Moss, W. G., and Johnson, V., differential effects of respiration on right and left ventricles, III, 717.
- Shull, C. G., Chase, C. T., and Myers, F. E., electron polarisation, I, 118.
- Shull, G. M. See Nielsen, E., and Pavcek, P. L.
- Shull, M. A. See Alles, G. A.
- Shulman, I. See Taylor, H. K.
- Shumacker, H. B., jun., Firor, W. M., and Lamont, A., therapeutic use of antitoxin in experimental tetanus, III, 527.
See also Fleischmann, W.
- Shunk, C. H. See Wilds, A. L.
- Shupe, I. S., determination of 2:4-diaminophenol, II, 212.
- Shur, E. I. See Fedorov, N. A.
- Shure, N., pyelonephritis and hypertension, III, 11.
- See also Kirshbaum, J. D.
- Shurin, A. See Batashev, K.
- Shute, E., degenerative vulvovaginitis associated with oestrogen imbalance, III, 117. Vitamin-E in habitual abortion and habitual miscarriage, III, 118. Association of deficiency of vitamins-B₁ and -E during pregnancy, III, 576.
- Shutt, R. P., De Benedetti, S., and Johnson, T. H., cloud-chamber track of a decaying mesotron, I, 113.
- Shuttleworth, R. G. See Rapson, W. S.
- Shuttleworth, S. G., conductometric elucidation of complex chromium cations. I. Theoretical. II. Structure and properties of chromium sulphate complexes, I, 233.
- Shvezov, J. B. See Shemaiak, M. M.
- Siarez, R. M., Diaz-Rivera, R. S., and Hernandez-Morales, F., aspirated bone marrow studies in normal *Macacus rhesus* monkeys, III, 453.
- Sicular, A. See Peshkin, M. M.
- Siddall, R. S. See Mack, H. C.
- Siddhanta, S. K. See Ray, P.
- Siddiqui, S., bitter principles from neem oil, II, 19, 180.
- Sideris, C. P., colorimetric micro-determination of iron, I, 24. Colorimetric micro-determination of phosphorus, I, 42. Adaptation of an indirect method for potassium to photo-electric colorimeter, I, 42.
- Sidorenkov, G. See Derjaguin, B.
- Sidwell, R., caliche deposits on Southern High Plains, Texas, I, 188.
- Sie, C. S. See Lee, F. H.
- Siebenmark, T. See Weygand, C.
- Siebert, H. See Winkel, A.
- Siedel, W., colouring matters of bile, II, 343. [with Theis, K.], novel preparation of *α*-hydroxypyrrroles; example of an intra-molecular correlated reaction, II, 382.
- and Winkler, F., diopsopyrroquinone, II, 388. Oxidation of pyrrole derivatives with lead tetra-acetate; porphyrin syntheses, II, 395.
- Siedentopf, H., and Green, R. G., preservation of distemper virus, III, 440.
- and Levine, Milton, apparatus for continuous filtration in blood and plasma transfusions III, 456.
- Siegel, L., Melnick, D., and Oser, B. L., bound pyridoxine (vitamin-B₆) in biological materials, III, 825.
See also Hochberg, M.
- Siegel, M., sulphadiazine in acute respiratory infections, III, 340. Oral administration of sulphadiazine at onset of acute respiratory illnesses, III, 906.
- Randall, M. G., Hecker, M. D., and Reid, M., value of mixed bacterial "oral cold vaccine," III, 696.
- Siegel, R. S. See Hauben, S. S.
- Siegel, U. See Hertel, E.
- Siegert, B., determination of soft cosmic-ray components through various materials for estimation of proportion of disintegration electrons, I, 3.
- Sievers, R. F., Edwards, T. I., Murray, A. L., and Schrenk, H. H., exposure to carbon monoxide, III, 95.
- Sieverst, A. See Schaefer, H.
- Sigel, M. M. See Hudson, N. P.
- Siggia, S. See Benedetti-Pichler, A. A.
- Sigler, L. H., hyperactive vasodepressor carotid sinus reflex, III, 305.
- Sigurdsson, B., effect of pH on stability of vesicular stomatitis virus, III, 852.
- Sigurdsson, G. J., and Wood, A. J., glucose metabolism of bacteria from commercial fish III, 431.
- Sigurdsson, N., mammalian red cells as source of "small particles," III, 710.
- Sikorski, J. A., dielectric losses in photo-electric conductivity, I, 144.
- Silber, R. H., and Mushett, C. W., pH change as measure of growth of *Lactobacillus casei* in vitamin assays, III, 189.
See also Tennent, D. M.
- Silber, S., treatment of tonsillitis, pharyngitis, and gingivostomatitis with bismuth salt of heptadienecarboxylic acid in cacao butter suppositories, III, 761.
- Silberberg, M., and Silberberg, R., effects of endocrines on age changes in epiphyseal and articular cartilages, III, 107. Effects of growth hormone of anterior hypophysis (antuitrin G) on skeleton of mice and guinea-pigs, III, 560.
- Silberberg, R. See Silberberg, M.
- Silbernagel, W. M., and Fidler, R. S., diagnosis and treatment of sterility, III, 888.
- Silberstein, L., investigations of intrinsic properties of the colour domain. II, III, 554.
- Silbert, S., thrombo-angiitis obliterans in cases of polycythaemia vera, III, 549.
- Siler, K. A. See Levy, J. S.
- Sillen, L. G., family of oxyhalides, I, 67.
and Edstrand, M., crystal structure of Arppe's bismuth oxychloride, Bi₂O₃Cl₁₀, and isomorphous oxybromide ("step-lattice oxyhalides"), I, 146.
- and Jornstad, E., mixed bismuth oxyiodides, I, 129.
- Siller, C. W., surface area and catalytic activity of zinc oxide pigments, I, 205.
- Silver, L. See Van Hook, A.
- Silver, R. S., tensile stress of water and liquid structure theory, I, 57.
- Silver, S., nature of blood-iodine and its determination, III, 304.
and Magasanik, B., blood-iodine after thyroidectomy, III, 556.
- Silverberg, R. J. See Faber, H. K., and Miller, J. J., jun.
- Silverblatt, (Miss) E., Robinson, A. L., and King, C. G., kinetics of reaction between ascorbic acid and oxygen in presence of copper ions, I, 158.
- Silverman, A., stoichiometric calculations on basis of crystal lattices, I, 82.
See also Sun, K. H.
- Silverman, E. G. See Zohman, B. L.
- Silverman, I. J. See Wiener, A. S.

- Silverman, L., and Thomson, R. M., determination of small gas flows; soap-bubble method, I, 139.
See also Lee, R. C.
- Silverman, M., microbiological formation of acetyl methylcarbinol, III, 687.
- Silverman, S. R. See Senturia, B. H.
- Silverstone, P. C. See Wolpe, L. Z.
- Silverstone, S. M., and Wolf, B. S., disadvantages of beam collimation by limiting diaphragm in deep X-ray therapy, III, 199.
- Silvette, H., pentothal sodium antidiuresis, III, 180. Influence of repeated daily exposure to low barometric pressure on urine output, III, 307.
- Simard, L. C. See Masson, P.
- Simchen, A. E. See Bobtelsky, M.
- Simha, R. See Branson, H., and Ginell, R.
- Simmonds, G. H. See Vincent, R. S.
- Simmonds, S., Cohn, M., Chandler, J. P., and Du Vigneaud, V., utilisation of methyl groups of choline in biological synthesis of methionine, III, 904.
- and Du Vigneaud, V., transmethylation as metabolic process in man, III, 260.
- See also Schenck, J. R.
- Simmons, K., and Greulich, W. W., menarcheal age and height, weight, and skeletal age of girls aged 7 to 17 years, III, 647.
- Simmons, M. P. See Falk, C. R.
- Simmons, N. L. See Nicholes, P. M.
- Simmons, R. T. See Morgan, F. G.
- Simms, H. S., use of measurable cause of death (haemorrhage) for evaluation of ageing, III, 181.
- Zwemer, R. L., and Lowenstein, B. E., osmometer for use with serum and its substitutes, III, 87.
- Simon, F. A., allergenic relationship of pollens of dwarf and giant ragweed to several of their botanic relations, III, 361. Human allergy to mammalian sera, III, 371.
- Simon, M. A., pathological lesions following administration of sulphonamide drugs, III, 509.
- and Kaufmann, M., death following sulphathiazole therapy, III, 342.
- Simon, M. G. See Isaac, W. E.
- Simonds, J. P., renal pathological changes in hypertension and glomerulonephritis, III, 566.
- Simonetti, A. See Monti, L.
- Simonin, L. M. See Zappi, E. V.
- Simons, D. J. See De Jong, H.
- Simons, J. H., Fontana, C. M., Francis, H. T., and Jackson, S. R., apparatus for measurement of scattering of low-velocity ions in gases at low pressure, I, 71.
- Fontana, C. M., Francis, H. T., and Unger, L. G., low-velocity scattering of H_2^+ in hydrogen; determination of neutralisation, I, 246.
- Fontana, C. M., Jackson, S. R., and Muschitz, E. E., jun., low-velocity scattering of H^+ and H_3^+ in hydrogen, I, 245.
- Francis, H. T., Fryberg, G. C., and Muschitz, E. E., jun., scattering of low-velocity hydrogen ions in water vapour, I, 246.
- and Meunier, A. C., hydrogen fluoride as a condensing agent. XVII. Addition of an alkyl chloride to the ethylenic linking, II, 323.
- Muschitz, E. E., jun., and Unger, L. G., scattering of low-velocity hydrogen ions in helium, I, 246.
- and Ramler, E. O., preparation and properties of trifluoromethyl compounds, II, 215. Hydrogen fluoride as a condensing agent. XVIII. Ar[yl] alkyl ketones, II, 328.
- Simons, L. T. See Critchfield, L. R.
- Simonsen, J. L. See Bennett, D. J., Lynas-Gray, J. I., and Owen, L. N.
- Simonsen, E., fatigue of central nervous system, III, 725.
- Baer, E., Braun, R., and Enzer, N., influence of vitamin-B (complex) surplus on capacity for muscular and mental work, III, 41.
- Simonsen, E., and Enzer, N., physiology of muscular exercise and fatigue in disease, III, 594. Effect of pervitin (deoxyephedrine) on fatigue of central nervous system, III, 764. See also Enzer, N.
- Simpson, D. M., longevity of cottonseed, III, 291.
- Simpson, (Sir) G. C., separation of electricity in clouds, I, 211.
- Simpson, J. A., jun. See Trounson, E.
- Simpson, M. E., Evans, H. M., and Li, C. H., injurious effect of pitressin on rat testis, III, 392.
- See also Evans, H. M., Fraenkel-Conrat, H., Kibrick, E. A., Li, C. H., Lyons, W. R., and Marx, W.
- Simpson, W. C. See Weiser, H. B.
- Sinclair, J. G., foetal rat parathyroids as affected by changes in maternal serum-calcium and phosphorus through parathyroidectomy and dietary control, III, 238.
- Singer, C., to Vesalius on the fourth centenary of his "De Humani Corporis Fabrica," III, 782.
- Singer, E., value of X-ray therapy on experimental gas gangrene infection, III, 54. Serological protection against arsenic compounds, III, 198.
- Singer, J. See Weitz, E.
- Singer, J. J., primary bronchiogenic carcinoma, III, 492.
- Singer, K., and Kubin, R., determination of bile-pigment in urine, III, 746.
- See also Miller, E. B.
- Singer, M., nervous system and regeneration of forelimb in adult *Triturus*. II. Role of sensory supply, III, 707.
- Singer, S. See Kovacs, I.
- Singewald, J. T., jun., origin of Chilean nitrate deposits, I, 168.
- Singh, A. See Singh, M.
- Singh, B., and Rehmann, A., potentiometric studies in oxidation-reduction reactions. XI. Quantitative potentiometric determination of aromatic amines, II, 76.
- Singh, B. K., and Sen, S. C., dependence of optical rotatory power on chemical constitution. XXI. Rotatory dispersion of stereoisomeric hydroxylaminomethylenecamphors and their acetylated and benzoylated derivatives. XXII. Rotatory dispersion of enantiomeric *o*-, *m*-, and *p*-nitro- and *p*-dimethylamino-benzylidene-aminomethylenecamphor, II, 271, 333.
- Singh, B. N., and Rao, N. K. A., state of chlorophyll in chloroplast, III, 447.
- See also Kothari, D. S.
- Singh, I., effect of hydrogen ions and tonic contraction on viscosity of unstriated muscle, III, 465. Isotonic extension of unstriated muscle, III, 465.
- Singh, M., and Singh, A., effect of phenyl group on rotatory power: phenylcamphoranic acids and *p*-diphenylimino-*d*-camphor, II, 377.
- Singh, N. L., arc lines of copper in flame spectra, I, 45.
- See also Asundi, R. K.
- Singh, S. See Bahl, R. K.
- Singleton, A. C. See Gordon, S.
- Sinha, P. C., and Ray, R. C., pyridine complex of metallic perchlorates. I, I, 260.
- Sinha, R. M. See Dutta, Pares C.
- Sinkel, F. See Hofmann, U.
- Sinkins, S. See Bernstein, M.
- Siple, P. A. See Darling, C. A.
- Siplet, H. See Shay, H.
- Siris, J. H., parapiramidal fasciculotomy in brain stem, III, 725.
- Sirkin, J. K., dielectric constants of polar liquids and dipole moments, I, 81. and Diatkina, M. E., structure of boron hydrides, I, 177.
- See also Diatkina, M. E., and Slovchochova, N. A.
- Siromiatnikov, A. See Gross, E.
- Sirota, H. H., value of deoxycorticosterone acetate in treatment of peripheral vascular diseases, III, 632.
- Sisakjan, N. M. See Oparin, A. I.
- Sise, L. F. See Hand, L. V.
- Sismanidis, A., selection of an almost invariable character in *Drosophila*, III, 156.
- Sitney, J. A. See Shapira, T. M.
- Sitnikov, I. P. See Kireev, V. A.
- Sitton, B. G. See Alben, A. O.
- Sive, E. B. See Donaldson, J. K.
- Sivertz, C. See Macallum, A. B.
- Sizer, I. W., action of oxidants and reductants on activity of bovine phosphatase, III, 143.
- and Josephson, E. S., kinetics as a function of temperature of lipase, trypsin, and invertase activity from -70° to 50° , III, 272.
- Sjaardema, H., and Glaser, M. A., localising value of clinical, electroencephalographic, and pneumoencephalographic findings in epilepsy, III, 165.
- See also Glaser, M. A.
- Sjoberg, B., ultra-violet absorption of sulphur compounds, I, 49. Mercaptan syntheses with thioacetic acid, II, 291.
- Sjoberg, K. See Jonsson, G.
- Sjogren, B., sulphanilamides and experimental tuberculosis, II, 8; III, 49. Vitamin-K action of naphthaquinones and naphthaquinone derivatives, III, 668.
- Sjöstrand, O. T. See Edman, P.
- Sjöstrand, T. See Euler, U. S. von.
- Skarban, M. K., genetical processes associated with fertility in natural population of *Drosophila fasciata*, III, 367.
- Skarzynski, B., and Euler, H. von, splitting of optically active dipeptides by malignant tumours and by serum. III, III, 570.
- See also Adler, Erich.
- Skau, E. L. See Graaf, M. L.
- Skau, N. See Emmett, P. H.
- Skavinski, E. R. See Hawes, R. C.
- Skeggs, L. See Bernhart, F. W.
- Skei, T. See Buchman, E. R.
- Skell, P., and Hauser, C. R., reactions of neopentyl systems with electrophilic reagents, II, 85.
- Skinner, G. S., Coghlan, C. A., and Berlin, A. S., α -hydroxy- α' -*p*-bromophenylmaleimide, II, 92.
- Skinner, H. G., and Waud, R. A., plastic film treatment of experimental burns, III, 340.
- Skinner, H. T., shoot growth and flower bud formation in rhododendrons and azaleas, III, 698.
- Sklar, A. L., electronic absorption spectra of benzene and its derivatives, I, 142.
- See also Herzfeld, K. F.
- Skłow, J., prolongation of sex hormone effects by adsorption on powdered carbon, III, 562.
- Skobeltzin, D. V., space distribution of particles in "Auger showers," I, 294.
- Skoglund, C. R. See Bernhard, C. G.
- Skolnik, H. See McNabb, W. M.
- Skorniakov, M. M., Kuznetsov, A. J., and Evstrop'ev, K. S., viscosity of system $Na_2SiO_3-SiO_2$ in molten state, I, 11.
- Skotnický, J., temperature coefficient of pH in blood and other buffers, III, 271.
- Skrimshire, G. E. H. See Coulthard, C. E.
- Slack, R. See Barber, H. J.
- Slade, H. D., intermediary metabolism of heterotrophic bacteria, particularly *Streptococcus paracitrovorus* and *Aerobacter indologenes*, III, 693.
- and Werkman, C. H., assimilation of acetic and succinic acids containing heavy carbon by *Aerobacter indologenes*, III, 432.
- Sladovic, L. See Bomskov, C.
- Slanetz, C. A. See Pappenheimer, A. M.
- Slater, C. See Krichesky, B.
- Slater, E. C., and Rial, J., thiamin content of Australian biscuits and breakfast foods, III, 255.
- Slater, I. See De Bodo, R. C.
- Slater, S. N., tutin, II, 147. Hydrogenation of tutin, II, 211.

- Slaughter, D., Gales, J. W., and Treadwell, C. R., morphine action: influence of prostigmine methosulphate on excretion, III, 911.
- Goddard, A. B., and Henderson, W. M., morphine action: effect on stomach, III, 513.
- Johnson, T. U., Tobolowsky, N., and Van Duzen, R. E., pharmacological action of drugs on isolated ureter, III, 588.
See also Tobolowsky, N.
- Slaughter, J. C. See Evans, T. C.
- Slichter, L. B., cooling of the earth, I, 322.
- Slinger, F. H. See Linstead, R. P.
- Slinger, S. J. See Motzok, I.
- Sloan, L. L., light sense in pigmentary degeneration of retina, III, 167. Use of pseudoisochromatic charts in detecting central scotomas due to lesions in conducting pathways, III, 316.
- and Newhall, S. M. comparison of cases of atypical and typical achromatopsia, III, 106.
- Sloan, M. H. See Shorr, E.
- Sloane, A. E., refraction clinic, III, 799.
See also Gallagher, J. R.
- Sloane, P., Persky, A., and Saltzmann, M., midbrain deafness; tumour of midbrain producing sudden and complete deafness, III, 387.
- Sloat, T. K. See Whitmore, F. C.
- Sloatman, W. S. See Whitmore, F. C.
- Slobody, L. B. See Benson, R. A., and Freud, P.
- Slocum, G. G. See Welch, H.
- Sloman, L., hippuric acid excretion test in pregnancy, III, 894.
- Slonek, O. F. See Preising, M. J.
- Slonimski, G. L. See Kargin, V. A.
- Slotin, L. See Evans, E. A., jun.
- Slovochotova, N. A., Sirkin, J. K., and Volkenstein, M. V., Raman spectra of betaine, I, 50.
- Slutzky, B., Dietz, N., Stoner, M. E., and O'Loughlin, B. J., effect of histaminase on cincophen ulcers produced in dogs, III, 177.
- Sluys-Veer, F. C. van der. See Ruzicka, L.
- Smadel, J. E., and Hoagland, C. L., elementary bodies of vaccinia, III, 288.
- Hoagland, C. L., and Shedlovsky, T., LS-antigen of vaccinia. IV. Chemical analysis of, and the effect of chymotrypsin on, the antigen, III, 359.
- and Rivers, T. M., LS-antigen of vaccinia. I. Inhibition of L- and S-antibodies by substances in treated vaccine dermal filtrate, III, 530.
See also Farr, L. E., Havens, W. P., Plotz, H., Shedlovsky, T., and Watson, D. W.
- Smakula, A., reduction of reflexion at surface of optical glasses, I, 6.
- Small, W. S., Hawes, R. C., Miller, H., and Piness, G., contamination of antigens with traces of other antigens as cause of false positive reactions in intradermal testing, III, 611.
See also Hawes, R. C.
- Smalley, R. E. See Starr, P.
- Smallwood, E., large-capacity extraction apparatus, I, 103.
- Smekal, A., mechanical and optical "excitation" of colour centres, I, 218.
- Smelser, G. K., reaction of orbital tissues in experimental exophthalmos following removal of Harder's gland, III, 559. Retrobulbar tissues in experimental exophthalmos in guinea-pigs with reference to primary and secondary modifications, III, 559. Changes induced in Harderian gland of guinea-pig by injection of hypophysal extracts, III, 736.
See also Levin, L.
- Smetana, H., and Johnson, F. R., origin of colloid and lipid droplets in epithelial cells of renal tubules, III, 486.
- Smiles, J. See Hawking, F.
- Smiley, K. L., Niven, C. F., jun., and Sherman, J. M., nutrition of *Streptococcus salivarius*, III, 922.
See also Niven, C. F., jun., and Sherman, J. M.
- Smillie, W. G., Calderone, F. A., and Onslow, J. M., prevalence of pneumococci in throats of homeless men, III, 605.
- Smirk, F. H., and McGeorge, M., S-methyl-isothiourea sulphate to maintain blood pressure in spinal anaesthesia, III, 344.
See also Fastier, F. N.
- Smirnov, A. See Schmuk, A.
- Smirnova, A. M. See Figurovski, N. A.
- Smirnova, V. A. See Rishkov, V. L.
- Smirnow, A. E. See Man, E. B.
- Smirnowa, A. W. See Schishkin, A. W.
- Smith, A. M., and Robb, W., carotene and protein in oats and barley at different stages of growth, III, 614.
- Smith, A. R., medical service plans for larger industrial plants, III, 594. Acute nephritis from exposure to carbon tetrachloride, III, 767.
- Smith, A. S., and Brown, G. G., correlating fluid viscosity, I, 224.
- Smith, B., and Struve, O., spectroscopic observations of 17 Leporis, I, 77.
- Smith, C., Sauls, H. C., and Stone, C. F., sulphonamides in bacterial endocarditis, III, 263.
- Smith, C. A., effect of nitrous oxide-oxygen-ether anaesthesia on oxygenation of maternal and foetal blood at delivery, III, 267.
and Kaplan, E., adjustment of blood-oxygen levels in neonatal life, III, 381.
See also Lowry, O. H., and Wing, W. M.
- Smith, C. E. See Baker, E. E., and Cobbett, N. G.
- Smith, C. G., age incidence of atrophy of olfactory nerves in man, III, 320.
- Smith, Carl H., Mediterranean (Cooley's) anaemia in youth of 19 years observed since early childhood, III, 571. Familial blood studies in cases of Mediterranean (Cooley's) anaemia, III, 786.
- Smith, Charles H., diet of young infants, III, 467.
- Smith, Clarence H., von Recklinghausen's disease in otology, III, 227.
- Smith, C. L. See Remington, R. E.
- Smith, C. M. See Adams, R.
- Smith, C. R. See Smith, Harold H.
- Smith, Clayton S. See Wolfrom, M. L.
- Smith, Cyril S., magnetic studies on precipitation of iron in α - and β -brass, I, 151.
and Hibbard, W. R., constitution of copper-rich copper-silicon-manganese alloys, I, 150.
- Smith, D. See Hinman, F.
- Smith, D. C., and Matthews, S. A., effect of adrenaline on oxygen consumption of fish, III, 645.
- Smith, D. E., Lewis, L. A., and Hartman, F. A., [action of adrenal cortex on] sodium retention in opossum, III, 884.
See also Hartman, F. A.
- Smith, D. G. See Phair, J. J.
- Smith, D. J. W., epidemiology of Q fever. X. Transmission of Q fever by the tick *Ixodes holocyclus*; tick-paralysis in bandicoots, III, 215.
- Smith, D. M., and Walsh, A., electrical screening of sparking apparatus for use in spectrographic analysis, I, 166.
- Smith, D. T. See Rosenholtz, J. L.
- Smith, E. C., child mortality in Lagos, Nigeria, III, 567.
- Smith, Earl C., oestrogen therapy of climacteric, III, 649.
- Smith, E. E. See Nutt, J. J.
- Smith, E. F., John Griscom, chemist, 1774—1852, I, 288.
- Smith, E. L. See Holck, H. G. O., and Wakerlin, G. E.
- Smith, E. R., and Taylor, J. K., change in potential of silver-silver chloride electrodes with time, I, 130.
- Smith, E. R. B., and Smith, P. K., thermodynamic properties of solutions of amino-acids and related substances. VIII. Ionisation of glycylglycine, ϵ -aminohexanoic acid, and aspartic acid in aqueous solution at 1—50°, I, 128.
See also Smith, P. K.
- Smith, E. S. See Bradsher, C. K.
- Smith, F., and Evans, R. W., blood-pH and haemolysis, III, 454. Endemic murine typhus, III, 777.
- Smith, F. Gordon, lineage structure and conditions of deposition of pyrite, I, 170.
- Smith, Frederick C., aberrant pancreatic tissue with hyperinsulinism, III, 111.
- Smith, G. See Birkinshaw, J. H., and Oxford, A. E.
- Smith, G. C. See Marvin, H. N.
- Smith, G. F., and Duke, F. R., cerate and periodate oxidimetry; perchlorato-cerate and periodate ions as oxidants in determination of organic compounds, II, 180.
and Kurtz, L. T., use of liquid amalgam reductors, I, 100.
See also Moss, M. L.
- Smith, G. P., human fertility, III, 392.
- Smith, G. S. See Carson, J.
- Smith, G. Stewart, ammoniacal solutions of silver [become explosive on keeping], III, 621.
- Smith, H. A., and Myers, R. R., acid-catalysed hydrolysis of phenyl-substituted aliphatic esters, I, 39.
- Smith, H. C., value of intravenous calcium chloride and glucose in uterine inertia of cows, III, 118. Idiopathic haemoglobinæmia in cattle, III, 864.
- Smith, H. E. See Kronfeld, P. C.
- Smith, H. H., Calderón-Cuervo, H., and Leyva, J. P., comparison of high and low subcultures of yellow fever vaccine (17D) in human groups, III, 610.
- Smith, Harold H., and Smith, C. R., alkaloids in species and interspecific hybrids of *Nicotiana*, III, 220.
- Smith, H. P. See Seegers, W. H.
- Smith, H. T. U. See Kaiser, C. P.
- Smith, H. Webster. See Thomas, L.
- Smith, Homer W., physiology of renal circulation, III, 869.
- Smith, I. A. See Garry, R. C.
- Smith, I. C. P., sintered glassware, I, 240.
- Smith, J., transfusion by direct methods, III, 159.
- Smith, J. A. B. See Owen, E. C., and Pearson, R. M.
- Smith, J. F., jun., and Albritton, C. C., jun., solution effects on limestone as a function of slope, I, 324.
- Smith, J. G. See Hilgeman, R. H.
- Smith, J. H., photo-colorimetric study of oxidation of nitric oxide at low pressures, I, 161.
- Smith, J. J., and Furth, J., fibrosis of endocardium and myocardium with mural thrombosis, III, 718.
- Smith, J. W. See Davenport, D.
- Smith, James W., ochronosis of sclera and cornea with alkaptotonuria, III, 640.
- Smith, K. M., and MacClement, W. D., ultrafiltration of plant viruses, III, 441.
- Smith, L. [with Nilsson, T.], reaction between chlorhydrins and ammonia or amines. I. Reaction mechanism, II, 354.
- Smith, Lawrence. See Becker, E. R.
- Smith, L. A., and Eusterman, G. B., impending gangrene of foot following treatment for pruritus of jaundice with ergotamine tartrate, III, 137.
- Smith, L. B. See Buerger, M. J.
- Smith, L. E. See Nelson, O. A.
- Smith, L. I., and Howard, K. L., action of aliphatic diazo-compounds on $\alpha\beta$ -unsaturated ketones. II. cis- and trans-Dibenzoylethylene. III. Benzylideneacetone and diazomethane, II, 207.
- and King, J. A., vitamin-E. XL. Synthesis and properties of 4-hydroxy-3:4:5-trimethyl-1-isopropylcoumaran, II, 240.

- Smith, L. I., and Roualt, G. F., alkylation of ethyl 3-methyl- Δ^2 -cyclohexenone-4-carboxylate (Hagemann's ester) and related substances, II, 233. Vitamin-E. XLII. Long-chain compounds with recurring "isoprene" units, II, 291.
 and Spillane, L. J., nitration of β -polyalkyl-phenylisovaleric acids, II, 8-m- α -Xylyl-isovaleric acid, II, 193. Polyalkylbenzenes. XXXII. Reaction between dimethylacrylic acid and *m*-xylene, II, 193.
 and Sprung, J. A., vitamin-E. XLI. Synthesis of α -chloro- $\gamma\gamma\delta$ -tetramethylhexadecan- γ -ol and its condensation with trimethyl-quinol to form α -tocopherol, II, 333.
- Smith, L. T. See Fisher, C. H., and Rehberg, C. E.
 Smith, L. W. See Peale, A. R.
 Smith, M. C., and Otis, L., carotene analysis of vegetables and fruits as a basis for prediction of their vitamin-A value, III, 188.
 Smith, M. E. See Hockett, R. C.
 Smith, M. G., infectivity and immunising effect of St. Louis encephalitis virus propagated in mouse brain and chick egg, III, 776. Incubation periods of poliomyelitis in mice of different strains, III, 851. Murine poliomyelitis virus in blood and spleens of mice shortly following inoculation, III, 851. Placental transmission of immunity to St. Louis encephalitis virus inoculated intraperitoneally in mice, III, 851.
 See also O'Leary, J. L.
- Smith, M. I., Jackson, E. L., and Rosenthal, S. M., antibacterial action of phosphorylated diaminodiphenylsulphone, III, 263.
 Lillie, R. D., and Stohlmeyer, E. F., diet and toxicology of azo-compounds, III, 592.
 See also Emmart, E. W., and Westfall, B. B.
 Smith, M. J. See Fishburn, A. G.
 Smith, M. M. See Steenken, W., jun.
 Smith, M. T. See Ellis, P. M.
 Smith, N. R. See Clark, F. E.
 Smith, O., premature seedling studies with beets, III, 697.
 Smith, O. W. See Schiller, S.
 Smith, P. A., and Sherman, J. M., lactic acid fermentation of streptococci, III, 284.
 Smith, Perle E. See Henze, H. R.
 Smith, Philip E., effect of equine gonadotropin on testes of hypophysectomised monkeys, III, 32.
 Smith, P. G. See King, L. C.
 Smith, P. H. See Albright, F.
 Smith, P. K., Gorham, A. T., and Smith, E. R. B., thermodynamic properties of solutions of amino-acids and related substances. VII. Ionisation of hydroxyl-amino-acids and proline in aqueous solution at 1–50°, I, 16.
 Olayo, R. W., and Winkler, A. W., tubular reabsorption of phosphate in the dog, III, 655.
 See also Rubin, M. A., and Smith, E. R. B.
 Smith, R. A. See Noller, C. R.
 Smith, R. B., jun., and Vos, B. J., jun., biological assay of posterior pituitary solution, III, 808.
 Smith, R. G. See Macias, F. T.
 Smith, R. N., and Leighton, P. A., micro-analysis of gases; nitric oxide-hydrogen, nitric oxide-nitrogen, and nitrous oxide-ammonia mixtures, I, 42.
 Smith, R. T., and Steele, B. H., improved rabbit cage, III, 447.
 Smith, R. V., vapour-pressure chart for volatile hydrocarbons, I, 9.
 Smith, Sidney. See Potts, W. J.
 Smith, Sydney. See Duffin, W. M.
 Smith, S. E., minimum vitamin-A requirement of fox, III, 406.
 Smith, S. G., Curry, R., and Hawfield, H., nicotinic acid storage in the dog at different levels of the vitamin, III, 500.
 Smith, Stuart G., response to colour in birds,
- Smith, W. A., Prince, H. E., and Cole, M. L., contact dermatitis from narrow leaf marsh elder (*Ita angustifolia*), III, 532.
 Smith, W. E. See Dienes, L.
 Smith, W. M. See Schindler, R.
 Smith, W. V., surface recombination of H atoms and OH radicals, I, 183.
 Smith, W. W., action of alkaline acriflavine solution on *B. salmonicida* and trout eggs, III, 510.
 Smith-Leask, R. J., use of stilboestrol in pyometra in bitch, III, 172.
 Smith-White, S. See Penfold, A. R.
 Smithers, J. F., and Leonard, S. L., relation of thyroid to mammary gland structure in rat, with reference to male, III, 120.
 Smithson, F., middle Jurassic rocks of Yorkshire; petrological and palaeogeographical study, I, 140.
 Smithwick, R. H., splanchnic resection for hypertension, III, 380.
 See also Talbott, J. H.
 Smits, A., pseudocomponents of ammonium halides, I, 55.
 and Tollenaar, D., nature of low-temperature transformation of ND₄I, I, 55.
 Smits, B. L., and Paterson, W. J., carotenoids of telial galls of [rust fungus] *Gymnosporangium juniperi-virginiae*, Lk., III, 295.
 Schmitz, H., and Schumacher, H. J., purification and analytical determination of gaseous fluorine, I, 137.
 Smock, R. M., influence of one lot of apple fruits on another, III, 536.
 Smoker, E. H., and Burchfield, P. E., cryoscopic analysis of styrene, indene, and dicyclopentadiene, II, 116.
 Smolens, J., and Sevag, M. G., antigenicity of *d*-ribonuclease; inhibition of enzyme by its homologous immune serum, III, 149.
 Smoluchowski, R., diffusion rate of carbon in iron-cobalt alloys, I, 122. Diffusion rates of carbon in iron-molybdenum and iron-tungsten alloys, I, 255.
 Smorodincev, I. A., and Shigalov, V. P., influence of papain and pepsin on proteins of meat and gluten, III, 427.
 Smull, J. G., and Saylor, J. S., alkylation of linseed oil, II, 119.
 Smull, K. See Earle, D. P., jun.
 Smyth, C. P. See Connor, W. P., and Hurd, E. C.
 Smyth, D. H., continuous registration of pulmonary ventilation, III, 94.
 Smyth, H. F., jun., Carpenter, C. P., Shaffer, C. B., Seaton, J., and Fischer, Louise, pharmacological properties of polyethylene glycols of high mol. wt. ("carbowax" compounds), III, 835.
 Seaton, J., and Fischer, Louise, response of guinea-pigs and rats to repeated inhalation of vapours of mesityl oxide and isophorone, III, 52.
 Smyth, J. D., morphology and cytology of branchiae of *Carcinus maenas*, III, 3.
 Smythe, J. A. See Anderson, W.
 Smythe, R. H., infertility in Guernsey cattle, III, 173.
 Snapp, E. F. See Berman, A. L.
 Snapp, F. E. See Annegers, J. H.
 Snapper, I., Shu, I. K. C., and Chang, T. Y., treatment of acute opium poisoning; beneficial effect of coramine, III, 52.
 Snell, A. C., Laurence-Moon-Biedl syndrome, III, 20.
 Snell, A. M., treatment of hepatic disease [and vitamins], III, 566.
 Snell, E. E., effect of heat-sterilisation on growth-promoting activity of pyridoxine for *Strep. ladicis* R., III, 525.
 and Guiard, B. M., interrelationships of pyridoxine, alanine, and glycine in their effect on lactic acid bacteria, III, 607.
 and Mitchell, H. K., sulphuramide antagonists as growth factors for lactic acid bacteria, III, 523.
 See also Lankford, C. E.
- Snelling, C. E., disturbed kidney function in newborn infant associated with decreased calcium : phosphorus ratio, III, 655.
 and Erb, I. H., cystic fibrosis of pancreas, III, 654.
 and Nelson, W., vitamin-K in haemorrhagic disease of newborn infant, III, 547.
 Snider, G. D. See Hoagland, R.
 Snider, R. S., bulk Nissl method, III, 300.
 Snieszko, S. F., detergents and staining of bacteria, III, 431.
 Snodgrass, T. J., acute intestinal obstruction caused by non-absorbable suture material, III, 246.
 Snow, R. B., equilibrium relationships on liquidus surface in part of MnO-Al₂O₃-SiO₂ system, I, 129.
 Snow, W., X-ray visualisation of soft tissues of normal and abnormal advanced pregnancy, III, 174.
 Snow, W. B. See Brighton, G. R.
 Snyder, A. F. See Weisman, A. I.
 Snyder, F. H., and Tweedy, W. R., effect of magnesium-deficient diet on serum-phosphatase activity in albino rats, III, 253.
 Snyder, G. A. C., and Larson, C. P., primary eosinophil adenocarcinoma of hypophysis, III, 323.
 Snyder, H. B., and Gilbert, E. C., binary systems involving ethylene chlorohydrin; vapour-liquid equilibria, I, 91.
 Snyder, H. R., Andreen, J. H., Cannon, G. W., and Peters, C. F., convenient synthesis of *d*-methionine, II, 72.
 Snyder, M. L., normal faecal flora of infants between two weeks and one year of age, III, 125.
 and Lichstein, H. C., sodium azide as an inhibiting substance for Gram-negative bacteria, III, 204.
 See also Lichstein, H. C.
 Snyder, R. G., and Squires, W. H., activated ergosterol in treatment of chronic arthritis. I. and II., III, 258.
 Sobel, A. E. See Mandelbaum, H.
 Sober, E. K. See Cohen, P. P.
 Sober, H. A., Mannerling, G. J., Cannon, M. D., Elvehjem, C. A., and Hart, E. B., nutrition of guinea-pig, III, 501.
 Sobin, B., and Stahly, G. L., isolation and absorption spectrum maxima of bacterial carotenoid pigments, III, 206.
 Sobin, S. S., sulphonamide solubility in urea, III, 132.
 Aronberg, L. M., and Rolnick, H. C., nature of renal lesion with sulphonamides and its prevention with urea, III, 584.
 Sobotka, H., chemical differentiation of Tay-Sachs disease and other lipidoses, III, 579.
 and Bloch, E., methylation of hydroxyl groups in triazines, II, 280.
 See also Adlersberg, D., and Wechsler, I. S.
 Sockrider, E. M. See Evans, A. C.
 Sodeman, W. A., clinical aspects of recent vitamin advances, III, 574.
 See also Pullen, R. L.
 Sorensen, N. A. See Kuhn, R.
 Soffer, L. J., and Cohn, C., primary and secondary hyperparathyroidism, III, 735.
 and Lesnick, G., Addisonian crisis complicated by relative hypertension, oedema, and acute *Streptococcus haemolyticus* infection of throat, III, 110.
 Sofin, L. H., Rosenblum, and Schultz, R. C., colour reaction for methionine, II, 212.
 Sohm, M., absorption of liquid water and deuterium oxide in the infra-red region between 5 μ and 27 μ , I, 217.
 Sohn, A. W. See Staudinger, Hermann.
 Soibelman, B. I., and Bresler, F., detection of nitrates in presence of interfering anions, I, 314.
 Sokhey, S. S., and Habbu, M. K., optimum and limiting temperatures for growth of plague bacillus in broth; optimum and limiting pH for growth of plague bacillus in broth, III, 921.

- Sokolik, A. S., influence of temperature on detonation limit of hydrogen-air mixtures. II., I, 183.
- Sokoloff, N. See Perlman, H. H.
- Sokolov, A. See Ivanenko, L.
- Sokolov, N. A. See Glagoleva-Arkadieva, A. A.
- Sokolow, M., and Chamberlain, F. L., clinical evaluation of cedilanid, III, 675.
- Weinberg, H. B., Plaut, J. L., and Katz, L. N., digitalis in prevention of recurrent cardiac failure in patients with sinus rhythm, III, 137.
- Solandt, D. Y., atrophy in skeletal muscle, III, 465.
- and Best, C. H., Royal Canadian Navy colour vision test lantern, III, 314.
- and Magladery, J. W comparison of effects of upper and lower motor neurone lesions on skeletal muscle, III, 795.
- Partridge, R. C., and Hunter, J., effect of skeletal fixation on skeletal muscle, III, 792.
- See also Magladery, J. W.
- Solanki, D. N., and Prabhanjanmurti, M., electrolysis of manganous sulphate and sulphuric acid, I, 205.
- Solarz, S. D., and Elek, S. R., U-wave patterns in abnormal electrocardiogram, III, 717.
- Solberg, A. N., improvement in the Harvard kymograph, III, 447.
- Soldati, B. See Koller, F.
- Solen, M. H. See Shock, N. W.
- Soley, M. H., exophthalmos and goitre, III, 21.
- and Stone, R. S., X-ray treatment of hyperthyroidism, III, 321.
- Soliman, G., and Mustafa, (Miss) Z., saponin of fenugreek seeds, II, 99.
- See also Mustafa, (Miss) Z.
- Solis-Cohen, L. See Freedman, P.
- Sollai, (Signa) V. See Sanna, G.
- Sollner, K., and Carr, C. W., structure of collodion membrane and its electrical behaviour. IV. Relative merits of homogeneous phase theory and micellar-structural theory as applied to dried collodion membrane. V. Influence of thickness of dried collodion membranes on their electromotive behaviour, I, 14, 125.
- See also Abrams, I.
- Solomon, C. See Lisa, J. R., and Louria, A. L.
- Solomon, H. C. See Kopp, I.
- Solomon, S., and Karkstein, M., pneumonia due to *Streptococcus viridans*, III, 922.
- Solotorovsky, M. See Buchbinder, L.
- Soloway, S. See Friedman, B., and Oster, K. A.
- Solowey, M. See Buchbinder, L.
- Soltz, S. E. See McKendree, C. A.
- Somerville, W. T., reaction of sulphanilamide, II, 298.
- Somkin, E. See Maiser, F. E.
- Sommer, A., photo-electric alloys of alkali metals, I, 122.
- Sommer, E., determination of sulphuric and nitric acids in presence of one another by conductometric neutralisation analysis, I, 161.
- Sommer, H. See Bendien, W. M.
- Sommer, H. E., and Stokes, J., jun., effect of ultra-violet light on cross-infection in an infants' ward, III, 425.
- See also Harris, T. N., and Henle, W.
- Sommerfeld, A., fine structure of hydrogen, I, 1. Theory of superconduction, I, 119.
- Sommers, S. C. See Jacobs, J. L.
- Somogyi, J. C., loss of potassium from muscle after adrenalectomy and after iodoacetic acid poisoning in frogs, III, 723.
- Somogyi, M., effect of glucose feeding on ketonaemia in healthy persons, III, 131.
- and Weichselbaum, T. E., ketone-sparing effect of glucose, III, 131.
- See also Stark, I. E.
- Sonn, A., and Schreiber, H., [derivatives of] dihydroresorcinols, II, 338.
- Sookne, A. M., Rutherford, H. A., Mark, H., and Harris, M., fractionation of cellulose acetate, II, 222.
- Soonawala, M. F., structure of atomic nuclei, I, 141.
- Soos, A. N., measurement of dielectric constant in the centimetre band, I, 102.
- Soper, H. W., milk, III, 573.
- Soper, Q. F. See Fuson, R. C.
- Sorkin, S. Z., blood-amylase activity in disease of carbohydrate metabolism and in non-diabetic pancreatic disease, III, 714.
- See also Oster, K. A.
- Sorter, H. K. See Meyer, J.
- Sortome, C. L. See Pollack, M. A.
- Sortor, H. H. See Jameson, E.
- Soskin, S., storage and significance of tissue glycogen in health and in disease, III, 580.
- and Taubenhaus, M., sodium succinate as antidote for barbiturate poisoning and in control of duration of barbiturate anaesthesia, III, 834.
- See also Taubenhaus, M.
- Sostarić, N. See Prelog, V.
- Sotomayor Moreno, O., antithyrotropic substance in sera of dogs injected with thyrotropic hormone, III, 23. Action on thyroid of thyrotropic pituitary hormone, III, 25.
- Soule, M. H. See Kempf, J. E., and Pierce, M. E.
- Soulides, D. A., use of a composite medium for detection of *Streptococcus agalactiae*, III, 525.
- Sourkes, T. S. See Stevens, M. E. T.
- Southern, J. A. See Dobbins, J. T.
- Southwick, F. W., and Childers, N. F., influence of Bordeaux mixture on the rate of photosynthesis and transpiration of apple leaves, III, 701.
- See also Childers, N. F.
- Southwick, P. L. See Fuson, R. C.
- Southwick, R. W. See Parker, E. R.
- Soviet Scientists Committee, gas infection of brain as one form of serious complications of cerebro-craniial injuries, III, 688.
- Sowa, H. See Hückel, W.
- Spacu, G., Morgulescu, I. G., and Popper, E., refractometric properties of aqueous solutions of electrolyte mixtures, I, 87.
- Spath, A. See Ziegler, K.
- Spath, E., and Eiter, K., synthesis of 3-carboline (norharman) and 5-carboline, II, 280.
- Freund, E., and Lorenz, R., derivatives of aldon and crotonaldehyde. IV. Relationships between the monomeric aldon and its dimeric forms, II, 81.
- Galinovsky, F., and Mayer, Margarete, high-boiling bases of *Anabasis aphylla*, L., II, 17.
- Gergely, G., and Pailer, M., formation of phenols by ozonisation of benzene derivatives. II, II, 298.
- and Kittel, F., synthesis of 4:5-trimethylene-isoquinoline and derivatives of this base, II, 278.
- and Kromp, K., constituents of red sandalwood. III. Synthesis of pterostilbene [4-hydroxy-3':5'-dimethoxystilbene], II, 364.
- and Lorenz, R., constitution of ψ -conhydrine, II, 398.
- and Pailer, M., formation of 3:4-dimethoxy-6-ethylphenol by ozonisation of methyl 3:4-dimethoxy-6-ethylcinnamate, II, 227.
- Platzer, N., and Schmid, H., natural coumarins. LII. Constitution of oroselone, II, 275.
- and Schmid, H., derivatives of aldon and crotonaldehyde. II. α -Chlorocrotyl acetate, II, 215. Natural coumarins. LV. Synthesis of luvangetin. LVI. Constitution of sphondin, II, 381, 382.
- Spain, W. C., Gillson, R. E., and Strauss, M. B., comparative immunologic studies with salivary and epithelial extracts of dog, cat, and rabbit, III, 289.
- Spandau, H., and Gross, W. determination of mol. wt. of organic substances by dialysis, I, 304.
- Spangler, C. D., and Winslow, C. E. A., influence of sodium ion on viability of washed cells of *Bacillus cereus*, III, 688.
- Spangler, F. W. See Fuson, R. C.
- Spangler, J. A., and Davies, E. C. H., freezing points, densities, and refractive indices of the system glycerol-ethylene glycol-water I, 150.
- Spangler, J. M., Murray, J. M., and Little, C. C., genetics of susceptibility of mice to a transplantable melanoma, III, 184.
- See also Burk, D.
- Spano, S. See Sanna, G.
- Spark, C., structure of human anterior pituitary gland after administration of oestrogenic hormone, III, 885.
- and Biller, S. B., acromegaly with long-standing tumour infiltration of cavernous sinuses, III, 323.
- Sparlow, A. H., colchicine-induced univalents in diploid *Antirrhinum majus*, L., III, 445.
- Sparrow, A. See Hemingway, A.
- Spasokutotski, N. S. See Berkenheim, A. M.
- Spatz, S. M., application of lithium compounds of nitrogen heterocycles to antimalarial syntheses, II, 277.
- Spaulding, E. H. See Sage, D. N.
- Spaulding, L. B. See Kuizenga, M. H.
- Speakman, J. C., dissociation constants of acids in mixed solvents, I, 227.
- Speck, M. L., and Stark, C. N., gas ratio and correlated distinguishing properties of bacteria of genus *Proteus*, III, 437.
- See also McBee, R. H.
- Speck, S. B. See Fuson, R. C.
- Spector, H. I. See Werner, A. A.
- Spector, S. See McKenna, C. F.
- Speer, F. D. See McGavack, T. H.
- Speer, R. J. See Henze, H. R.
- Speert, H., non-effect of hysterectomy on mammary gland of monkey, III, 33.
- Speich, H. See Frey-Wyssling, A.
- Spencer, D. E., adaptation in colour space, III, 554.
- Spencer, E. C. See Macht, D. I.
- Spencer, E. L. See Waksman, S. A.
- Spencer, H. C., Irish, D. D., Adams, E. M., and Rowe, V. K., response of laboratory animals to monomeric styrene, III, 912.
- Spencer, H. M., and Flannagan, G. N., empirical heat-capacity equations of gases, I, 34.
- Spencer, J. See Cohen, R. H. L.
- Spencer, L. J., barium-felspars (celsian and paracelsian) from Wales, I, 27.
- Bannister, F. A., Hey, M. H., and Bennett, (Miss) H., minyulite (hydrous K Al fluophosphate) from South Australia, I, 267.
- Spencer, R. R., and Melroy, M. B., effect of carcinogens on small organisms. IV. Exposure of bacteria to high temperatures, III, 182. Species adaptation to carcinogens, III, 277.
- Spencer-Gregory, H., repulsive action between a heated solid surface and adjacent gas, I, 120.
- Spengler, W., determination of phosphorus by precipitation as ammonium phosphomolybdate; influence of treatment of precipitates in filtering and washing and air dilution during drying of acetone-treated precipitate, I, 162.
- Sperber, E. See Runnstrom, J.
- Sperisen, F. J. See Rogers, A. F.
- Sperling, F., extra-epidermal and supernumerary lenses in association with cyclopaean eyes in *Ambylostoma* embryos, III, 619.
- Sperling, L., aneurysm of splenic artery, III, 463.
- Speroni, G., and Barchielli, R., kinetics of oxidation by permanganate by side-chains to the benzene nucleus. I. Oxidation of monochlorotoluene, I, 38.
- Sperry, R. W., effect of 180° rotation of retinal field on visuomotor co-ordination, III, 642.
- Visuomotor co-ordination in newt (*Triturus viridescens*) after regeneration of optic nerve, III, 879.
- See also Lashley, K. S.
- Sperry, W. M., biochemistry of lipoidoses, III, 579.
- Spetz, M. See Woodyatt, R. T.

- Spicer, S. S., Daft, F. S., Sebrell, W. H., and Ashburn, L. L., agranulocytosis and leucopenia in rats [from sulphanilamides], III, 160.
- Spicer, W. M., and Metcalf, J. S., relative weights of phases present in a heterogeneous system at equilibrium, I, 257.
- Spiegel, E. A., and Henny, G. C., impedance changes induced in brain by electric stimulation, III, 382.
- and Scala, N. P., positional nystagmus in cerebellar lesions, III, 20. Response of labyrinthine apparatus to electrical stimulation, III, 880.
- Spiegel, R. See Ottenberg, R.
- Spiegel-Adolf, M., Hamilton, R. H., jun., and Henny, G. C., X-ray diffraction studies of iodinated amino-acids and proteins, I, 8.
- Spiegelberg, P., X-ray studies on potassium antimonates, I, 145.
- Spiegelman, S. See Nachmansohn, D.
- Spielholz, J. B. See Greenwald, L.
- Spielman, F. See Geist, S. H.
- Spies, J. R., Bernton, H. S., Chambers, D. C., and Stevens, H., nature of unidentified allergens of cottonseed, III, 531.
- and Umberger, E. J., chemistry of allergens. VI. Chemical composition and properties of an active carbohydrate-free protein from cotton seed, III, 70.
- See also Bernton, H. S.
- Spies, T. D. See Bean, W. B., and Moore, C. V.
- Spillane, L. J. See Smith, L. I.
- Spillett, E. E., structure of rolled and annealed aluminium as revealed by X-rays, I, 195.
- Spillmann, M. See Ruzicka, L.
- Spindler, H. A. See Kariher, D. H.
- Springarn, C. L. See Glass, W. I.
- Spangler, H., kinetics of evaporation of ammonium chloride, I, 86.
- and Reinhard, O., "magneto-catalytic" effect in hydrogenation of carbon dioxide and carbon monoxide on nickel, I, 21.
- Spink, W. W., and Paine, J. R., local use of sulphathiazole in treatment of staphylococcal infections, III, 583.
- See also Arnett, J. H.
- Spinks, A. See Cook, A. H., and Heilbron, I. M.
- Spira, L., fluorosis, III, 139. Fluorosis and parathyroid glands, III, 405. Mottled nails, early sign of fluorosis, III, 574. Endemic fluorosis in Great Britain, III, 574. Aetiology of otosclerosis, III, 804.
- Spiridonova, N. S. See Rubin, B. A.
- Spirig, M. See Asher, L.
- Spitz, S. H. See Bennett, R. H., Loughlin, E. H., and Zahl, P. A.
- Spitzer, L., jun., dynamics of interstellar medium. III. Galactic distribution, I, 79.
- Spitzer, R., adaptation of gonococci in culture to sulphanilamides and other bactericides, III, 773.
- Spitzmiller, E. R. See Amstutz, E. D.
- Spivack, A. H. See Busch, I.
- Spivack, M., presence or absence of nerves in umbilical blood vessels of man and guinea-pig, III, 298.
- Spizizen, J., virus multiplication, III, 608.
- Splatt, B. See Wood, B.
- Spoehr, H. A., origin and transformation of carbohydrates in plants, III, 292.
- Sponagle, R. See Fierz-David, H. E.
- Sporer, H., absorption spectra of phenylalanine and tyrosine in connexion with the absorption in toluene and *p*-cresol, I, 49. Ultra-violet absorption spectra of substituted benzenes, I, 143.
- See also Nordheim, G.
- Spooner, C. E. See Belcher, R.
- Spooner, R. C. See Sherrill, M. S.
- Spotnitz, H. See Elsberg, C. A., and Polatin, P.
- Sprague, H. B. See Baker, E. A.
- Sprague, J. M., hyoid region of placental mammals with reference to bats, III, 705.
- Sprague, K. D. See Lawrence, C. A.
- Sprague, K. L. See Welch, A. D.
- Sprague, R. G., Priestley, J. T., and Dockerty, M. B., diabetes mellitus without other endocrine manifestations in case of tumour of adrenal cortex, III, 558.
- Sprang, C. A. [with Degering, E. F.], utilisation of aliphatic nitro-compounds. VIII. Nitro-triols (nitroglycerols) prepared from simple aldehydes, II, 214.
- Sprince, H. See Burk, D.
- Springin, D. B. See Chargaff, E.
- Sproul, E. E. See Shemin, D.
- Sproull, R. C. See Lehman, R. A.
- Sprung, J. A. See Smith, L. I.
- Sprunk, G. C., influence of physical constitution of coal on its chemical, hydrogenation, and carbonisation properties, I, 76.
- Sprunt, D. H., inhibiting effect of methionine, choline, and betaine on rabbit's susceptibility to infection with vaccinia, III, 359. Effect of under-nourishment on susceptibility of rabbit to infection with vaccinia, III, 441.
- and Camalier, W., jun., reduction of pulmonary resistance to infection by circulating toxins, III, 213.
- and Martin, D. S., *in vitro* neutralisation of pertussis toxin with pertussis antitoxin, III, 604.
- Spur, B. See Wolman, I. J.
- Spurr, R. A., and Schomaker, V., constitution of pyrene; electron diffraction investigation, I, 54.
- See also Olson, W. T., and Shand, W., jun.
- Spyker, M. A., and Fidler, R. S., glycogen studies on human endometrium: correlation of quantitative chemical estimation and qualitative demonstration by histological methods, III, 115.
- Squillace, J. A. See Polayes, S. H.
- Squires, G. V. See Moss, E. S.
- Squires, W. H. See Snyder, R. G.
- Sreenivasan, B. See Ramaswamy, S.
- Sreenivasaya, M. See De Souza, V., Ramaswamy, S., and Sarma, P. S.
- Sreerangachar, H. B., degradation of chlorophyll during tea fermentation, III, 841.
- Stableforth, A. W., sulphanilamide in animals: dosage and tolerance, III, 264.
- Hignett, S. L., Watts, P. S., Paterson, J. D., Cunningham, A., Edwards, S. J., Malcolm, J., and Roach, R. W., sulphanilamide in bovine mastitis due to *Strep. agalactiae*: value of irrigation with euflavine in lactose solution, III, 264.
- Stack, M. V. See Petrow, V. A.
- Stacy, R. See Goodman, J. I.
- Stadie, W. C., intermediary metabolism in diabetes mellitus, III, 905.
- and Zapp, J. A., jun., aerobic carbohydrate and lactic acid metabolism of muscle preparations *in vitro*, III, 671. Equilibrium relations of *d*-amino-acid oxidase, flavin adenine nucleotide, and amino-acids from kinetic data, III, 915.
- Stadler, H. E., and Blackstone, C. H., hereditary ectodermal dysplasia of anhydrotic type, III, 706.
- See also Russin, L. A., and Willumsen, H. C.
- Staelin, R., indications and contra-indications of sulphanilamide therapy, III, 416. Fatigue and disease, III, 594. Bronchial and pulmonary carcinoma, III, 820.
- Stahl, treatment of epilepsy, III, 51.
- Stallberg-Stenhagen, S., and Stenhagen, E., monolayers of compounds with branched hydrocarbon chains. VI. 2-[*a*]Methyl- and 10-[*t*]-methyl-substituted carboxylic acids of high mol. wt., I, 226.
- Stampfli, R., and Wilbrandt, W., dependence of ultra-violet light haemolysis on wave-length, III, 767.
- Stahl, (Miss) E. See Schwenk, E.
- Stahl, K. H., and Kuever, R. A., quinine sulphamate, II, 49.
- Stahl, W. C. See Russell, W. O.
- Stahle, D. C., serum and sulphonamides in pneumonia, III, 133.
- Stahly, G. L., Sesler, C. L., and Brode, W. R., measuring bacterial pigments by use of spectrophotometer and photo-electric colorimeter, III, 61.
- See also Sobin, B.
- Stahmann, M. A. See Overman, R. S.
- Stair, E. C., and Showalter, R. K., tetraploidy in tomatoes induced by colchicine, III, 537.
- Stalker, L. K., appendicitis in patients over 60 years of age, III, 329.
- Stalker, W. W. See Hill, R. T.
- Stallcup, W. D., and Hawkins, J. E., reactions of β -pinene. II. With selenium dioxide in acetic acid, II, 41.
- See also Fugitt, R. E., and Williams, D.
- Stamberg, O. E., and McBain, J. W., ultracentrifugal studies of the salt-soluble protein fraction of barley and malt, III, 681.
- Stamm, G. See Blangey, L.
- Stamm, H., and Goehring, M., polythionic acids and their formation. VI. New preparations for potassium tri- and tetra-thionate, I, 136. Titration with alkaline permanganate solution. IV. Volumetric determination of quadrivalent selenium with permanganate, I, 263.
- See also Goehring, M.
- Stamm, R. F., Raman spectra of sugars, I, 176.
- Stammel, C. A., multiple striæ parallel to epiphyses and ring shadows around bone growth centres, III, 78.
- Stammers, F. A. R., lymphogranuloma inguinale (tropical bubo), III, 696.
- Standard, R. See Rambar, A. C.
- Standfast, A. F. B. See Coulthard, C. E.
- Stanfield, J. A. See Wood, J. H.
- Stanford, C. E. See Boerer, J. J.
- Stanier, R. Y., elasticotaxis in myxobacteria, III, 278. *Cytophaga* group: biology of myxobacteria, III, 278. Cultivation and nutrient requirements of a chytridiaceous fungus, *Rhizophlyctis rosea*, III, 353. Agar-decomposing strains of *Actinomyces coelicolor* species-group, III, 354. Marine agar-digesting bacteria, III, 431.
- Stanley, W. M., and Anderson, T. F., electron micrographs of protein molecules, III, 200. See also Glaser, R. W., and Miller, G. L.
- Stanley, W. N., concentration and purification of tobacco mosaic virus by means of the Sharpe super-centrifuge, III, 69.
- Stannus, D. G. See Roche, C. F.
- Stannus, H. S., sprue, III, 246.
- Stansbury, H. A., jun., formation of ergostatetraene-B during acetylation of ergosterol, II, 304.
- See also Bergmann, W.
- Stansfield, F. R., pregnancy after thoracoplasty, III, 242.
- Stansfield, H. See Denstedt, O. F.
- Stanton, H. E., theory of cellular pulsations, III, 452.
- Stanton, W. B., exceptional tortuosity of splenic artery, III, 541.
- Stapleforth, A. W., control of diseases of cattle inimical to man: mastitis, streptococcal infection, brucellosis, and sterility, III, 849.
- Stapp, C., *Azotomas insolita*, a new aerobic nitrogen-fixing micro-organism, III, 207. Cytology of *Pseudomonas tumefaciens*, the crown-gall organism, III, 278. Serological identification of potato viruses X, Y, and A, III, 288.
- Starbuck, E. B., and Ward, T. G., comparison of a recently developed macroscopic agglutination test for diagnosis of leptospiral jaundice with standard microscopic test, III, 64.
- Starbuck, G. W. See Hubbard, J. P.
- Starik, J. E., Jaschtschenko, M. L., and Samartzeva, A. G., solubility of secondary uranium minerals, I, 123.
- Kravtschenko, L. L., and Melikova, O. S., ferrithorite in North Kirghizia, I, 107. and Melikova, O. S., migration of ionium under natural conditions, I, 74.
- Segel, N. M., and Vereschtschagin, V. V., comparative migration capacity of radium and meso-thorium I, I, 107.

- Starik, J. E. See also Gerling, E. K.
- Starin, W. A. See Grubaugh, K. K., and Heise, M. D.
- Stark, C. N. See Speck, M. L.
- Stark, I. E., and Somogyi, M., effect of insulin on quantitative relationship between β -hydroxybutyric and acetoacetic acids in blood and urine, III, 477. Effect of glucose feeding on quantitative relationship between β -hydroxybutyric acid and acetoacetic acid in blood and urine, III, 505. Quantitative relationship between β -hydroxybutyric acid and acetoacetic acid in blood and urine, III, 628.
- Stark, W., gold content of the sea, I, 210.
- Starke, K., enrichment of artificial radioactive uranium isotope ^{235}U and its product ^{239}N (element 93), I, 112.
- Starkey, D. H. See Glynn, J. H.
- Starkey, E. B. See Hager, G. P.
- Starkey, R. L., and Waksman, S. A., fungi tolerant to extreme acidity and high concentrations of copper sulphate, III, 917.
- Starkey, W. F., Grauer, R. C., and Saier, E., alteration of crystalline androsterone and dehydroisoandrosterone by alcohol as a vehicle, III, 812.
- See also Idzkowsky, H. J., and Saier, E.
- Starks, E. See Schmidt, L. H.
- Starling, J. H. See Johnson, M. W.
- Starling, W. W. See Petrow, V. A.
- Starobogatov, O. I. See Lurie, S. I.
- Starodubtzev, S. J., weighing method of sedimentometric analysis, I, 319.
- Starr, A., Frank, H. A., and Fine, J., venographic diagnosis of thrombophlebitis of legs, III, 94.
- and Gilman, S., effect of postoperative intercostal block on pulmonary ventilation, III, 464.
- Starr, C. See Kaufmann, A. R.
- Starr, I., abnormalities of amount of circulation (hyper- and hypo-kinesia) and their relation to neurocirculatory asthenia and kindred diagnoses, III, 229.
- and Jonas, L., supernormal circulation in resting subjects, III, 376.
- Starr, P., Rawson, R. W., Smalley, R. E., Doty, E., and Patton, H., microhistometric method applied to thyrotropic hormone assay, III, 239.
- Stasney, J., erythrophagocytosis and haem siderosis in liver and spleen in sickle-cell disease, III, 453.
- and McCord, W. M., bone marrow in pernicious anaemia. III. Occurrence of protoporphyrin in human bone marrow, III, 369.
- and Pizzolato, P., bone marrow in pernicious anaemia. I. Fluctuation in number and volume of nucleated cells. II. Nucleated cells and blood- and urine-uric acid, III, 369.
- See also Pearson, B.
- State, D. See Levine, Milton.
- States, M. N., and Anderson, J. C., significance of stray light in photo-electric filter photometers, I, 102.
- Staub, H., pharmacology of fatigue, III, 425. Artificial sweetening substances, III, 751.
- Staudinger, Hansjürgen. See Staudinger, Hermann.
- Staudinger, Hermann, macromolecular compounds. CCXXXVIII. Lower and macromolecular chemistry, II, 321. Determination of glycogen in organs, III, 364.
- and Jorder, H., macromolecular compounds. CCXCVI. Viscosity measurements on esters with unbranched and branched chains. CCXCVII. Determination of chain-length of polyamides, I, 14.
- and Schmidt, H. [with Kautz, S.], macromolecular compounds. CCXL. Polyesters, II, 318.
- and Sohn, A. W., macromolecular compounds. CCXLII. Native and precipitated celluloses and their nitrates, II, 322.
- Staudinger, Hermann, and Staudinger, Hansjürgen, macromolecular compounds. CCCXII. Caoutchouc. LV. Halogen derivatives of rubber hydrocarbons, II, 349.
- Staudinger, M., macromolecular compounds. CCXCIX. Fibrillar structure of natural and artificial cellulose fibres, I, 15.
- Stauff, J., adsorption of indicator dyes on micelles of paraffin chain salts, I, 35. Photochemical chlorination and sulphonochlorination of paraffin hydrocarbons in carbon tetrachloride solution, I, 159.
- and Schumacher, H. J., apparatus for investigating photo-reactions of halogens with organic substances in the liquid phase; photo-reaction between chlorine and n-heptane, I, 22.
- Stauffer, C. R. See Gruner, J. W.
- Stauffer, D. A. See Hazlet, S. E., and Riessom, J. L.
- Stauffer, J. F. See Fan, C. S.
- Stavely, H. E., catalytic reduction of cholesterol α -oxide, II, 95.
- and Bollenback, G. N., steroids with ethylenic linkings between quaternary carbon atoms. I. Oxidation of α -ergostenyl acetate. II. Structure of α -dihydroergosterol, II, 332.
- Staveley, L. A. K., Jeffes, J. H. E., and Moy, J. A. E., hydrogen bond and hydration of organic molecules, I, 88.
- Stavitsky, A. See Clark, W. G.
- Stavryk, G. W., gastric secretion induced by acetyl- β -methylcholine chloride, III, 482. Pulmonary ventilation and adrenaline action, III, 645.
- Staz, J., calcified odontomes, III, 572.
- Steabben, D., antigens from *Bact. dysenteriae*, Shiga, and their antisera in protective tests against the living organisms, III, 920.
- See also Petrie, G. F.
- Stacie, E. W. R., and Le Roy, D. J., quenching of cadmium resonance radiation (3261 Å) by hydrocarbons and other gases, I, 189.
- See also Le Roy, D. J.
- Stead, D. M. See Peters, A. T.
- Stead, E. A., jun., Ebert, R. V., Romano, J., and Warren, J. V., central autonomic paralysis, III, 728.
- See also Ebert, R. V., Schales, O., Warren, J. V., and Weiss, S.
- Steadman, L. T., carbon arc in oxygen for spectrochemical determination of potassium, I, 210.
- Stearns, G. See Boyd, J. D., and McKay, H.
- Stearns, T. W., and Roepke, M. H., electrophoresis studies on *Brucella*, III, 433. Effect of dissociation on electrophoretic mobility of *Brucella*, III, 433.
- Stearns, W. V., and George, E. J., thermodynamic properties of propane, I, 224.
- Stebbins, E. L., Ingraham, H. S., and Chant, H. L., changing factors in diphtheria immunity, III, 211.
- Stebbins, H. D. See Lerman, J.
- Steck, E. A., and Day, A. R., reactions of phenanthraquinone and retenequinone with aldehydes and ammonium acetate in acetic acid solution, II, 208.
- Steege, T. W. See Gregg, D. E.
- Steele, B. H. See Smith, R. T.
- Steele, J. M., comparison of simultaneous indirect (auscultatory) and direct (intrarterial) measurements of arterial pressure in man, III, 549.
- Steele, R. See Steiner, P. E.
- Steele-Bodger, H. W. See Gould, G. N.
- Steenbock, H. See Bunkfeldt, R., Fuhr, I., Gottlieb, H., and Quackenbush, F. W.
- Steenken, W., jun., and Gardner, L. U., vaccinating properties of avirulent dissociates of five different strains of tubercle bacilli, III, 924.
- and Heise, F. H., action of promin and diaminodiphenylsulphone on tubercle bacilli: antipromin action of *p*-amino-benzoic acid, III, 830.
- Steenken, W., jun., and Smith, M. M., shaking machine and containers for shaking sputums and other body fluids during homogenisation III, 151.
- Steeves, L. C., separation of blood serum, III, 712.
- See also Kalz, F.
- Stefanovskaja, Z. F., Dorofeev, V. V., and Trefiliev, I. A., condensation of succinic acid with acetylacetone, II, 100.
- Steffen, G. L. See Peizer, L. R.
- Stefki, P., Andrus, W. de W., and Lord, J. W., jun., effects of jejunal transplants on gastric acidity, III, 124.
- See also Andrus, W. de W., and Lord, J. W. jun.
- Steger, L. See Cook, A. H.
- Steggerda, M., stature of South American Indians, III, 544.
- Steggerda, R. F. See Richards, R. K.
- Stehle, R. L., and Melville, K. I., action of adrenaline on atropine-acetylcholine reversal phenomenon, III, 735.
- Steigman, A. J. See Ende, M. van den.
- Steigmann, A., photographically interesting fine chemicals as specific spot test reagents, I, 163. Specific tests for mercury with dithizone membrane papers, I, 164. Colour reactions of phenols, II, 52. Characteristic reactions of citric and tartaric acid, II, 403.
- Steigmann, F., diagnosis of large gastric ulcers and implications as to treatment, III, 892. See also Blatt, M. L., and Wozasek, O.
- Stein, A. See Brickner, R. M.
- Stein, C. W. C., and Day, A. R., reactions of retene- and phenanthra-quinoneimine with aldehydes; aldol-type condensation, II, 108. Reactions of retene- and phenanthra-quinoneimine with Schiff bases; aldol-type condensation, II, 109.
- Stein, H. B., effect of 2-methyl-1:4-naphthaquinone on clotting factors of blood of jaundiced patients with hypoprothrombinæmia, III, 6.
- See also Gillman, J.
- Stein, H. J. See Follis, R. H., jun., and Wintrobe, M. M.
- Stein, J. See Hollander, F.
- Stein, K. E. See Clinton, M., jun.
- Stein, K. P., and Lisle, M., gonad-stimulating potency of pituitary of hypothyroid young male rats, III, 170.
- Stein, L., and Wertheimer, E., cold-susceptible protein in blood of dogs infected with kala-azar, III, 7.
- Stein, R. J., intracellular inclusion bodies in carcinoma of adrenal gland, III, 403.
- Stein, W. H. See Moore, S.
- Steinbach, H. B. See Nachmansohn, D.
- Steinbach, O. F., laboratory experiment on deliquescence and efflorescence, I, 288.
- Steinberg, A. See Colton, N. H.
- Steinberg, C. Le R., value of splenectomy in Felty's syndrome, III, 159. Tocopherols in treatment of fibrosis, III, 232.
- Steinberg, H. H., Massari, S. C., Miner, A. C., and Rink, R., industrial exposure to tellurium: atmospheric studies and clinical evaluation, III, 766.
- Steinberg, M. F. See Horn, H.
- Steinberg, P. See Mollov, M.
- Steinberg, R. A., effect of trace elements on growth of *Aspergillus niger* with amino-acids, III, 59. Process of amino-acid formation from sugars in *Aspergillus niger*, III, 845.
- and Thom, C., reversions in morphology of nitrate-induced "mutants" of *Aspergilli* grown on amino-acids, III, 845.
- Steinbuch, W. See Fichter, F.
- Steiner, A., and Domanski, B., serum-cholesterol level in coronary arteriosclerosis, III, 866.
- Steiner, G. See Freud, H. A.
- Steiner, P. E., induction of tumours with extracts from human livers and human cancers, III, 38. Comparative pathology of induced tumours of salivary glands, III, 127. Carcinogenic extract from human bile and gall-bladder, III, 488.

- Steiner, P. E., Klüver, H., and Brunschwig, A., three carcinomas of tongue in two monkeys, III, 403.
- Steele, R., and Koch, F. C., possible carcinogenicity of overcooked meats, heated cholesterol, aldehyde, and heated sesame oil, III, 818.
- Steinfeld, F. U., attempts to reduce acquired atoxyl-resistance in *Trypanosoma gambiense*, III, 419.
- Steinfield, E., and Watson, Margaret, surface growth of *Clostridium welchii*, III, 773.
- Steingiser, S. See Waring, C. E.
- Steinhardt, J., and Fngitt, C. H., catalysed hydrolysis of amide and peptide bonds in proteins, II, 115.
- Steinhaus, E. A., microbiology of insects, with reference to biologic relationships between bacteria and insects, III, 71. Toxic principle in eggs of ticks, III, 71. Microbial flora of Rocky Mountain wood tick, *Dermacentor andersoni*, Stiles, III, 278.
- See also Parker, R. R.
- Steinhaus, J. E., and Georgi, C. E., effect of pectin, galacturonic acid, and methyl α -galacturonate on growth of Enterobacteriaceæ, III, 280.
- Steinhauser, H. See Bernhard, K.
- Steinitz, F. S. See Friedberg, L.
- Steinman, H. G. See Eagle, H.
- Steinman, R., Schirmer, F. B., jun., and Audrieth, L. F., preparation and properties of trimeric phosphonitritic chloride, I, 40.
- Steinmann, J., counting colonies of bacteriophage, III, 608.
- Steinmark, H., colour vision, III, 472.
- Stekol, J. A. See Kaser, M., and Ransmeier, J. C.
- Steidt, F. A., and Chen, K. K., [pharmacology of] alkaloids of *Lunaria amara*, III, 675. Oil of *Cerbera odollam*, III, 854.
- See also Chen, K. K.
- Stempel, A., and Elderfield, R. C., loco weeds. V. Constituents of *Astragalus earlei*, II, 21.
- Stengel, A., and Ravidin, I. S., maintenance of nutrition in surgical patients, III, 252.
- Stenhammar, E., structure of multilayers and relation between optical and mechanical thickness and X-ray spacing, I, 146. X-Ray study of hydrocarbon from phthiocerol, I, 221.
- See also Stållberg-Stenhammar, S.
- Stenhouse, M. See Sarett, H. P.
- Stenius, S., dark-adaptation and platinum chloride method of staining visual purple III, 312.
- Stenvinkel, G., formation of molecules in binary collisions. I. Aluminium hydrides, I, 216.
- Stepanov, B., vibrational spectra of hydrocarbon molecules. V. Computation of frequencies of bond vibrations of olefine chains, I, 5.
- See also Eliaschevitsch, M.
- Stephen, V. A. See Colquhoun, T. T.
- Stephenson, N. R., oxidative deamination of diamines by histaminase, III, 842.
- Stephenson, R. W. See Shriner, R. L.
- Stephenson, S. T. See Niemann, F.
- Stephenson, W. V. See Vail, D.
- Stepin, V. V., vanadometric volumetric micro-determination of iron, I, 237.
- Sterges, A. J., adaptability of silica gel as culture medium, III, 61.
- Sterling, F. R. See Hunter, F. R.
- Sterling, J. A., bacterial agglutinin in bile of patients with cholelithiasis, III, 149.
- Stern, K., and Dancey, T. E., injection of heavy water into cerebrospinal fluid space, III, 639.
- Stern, K. G., ultracentrifuge with plastic rotor, I, 167. Electrophoresis of colloids under war-time conditions, I, 265.
- See also Belkin, M.
- Stern, L. C., intracisternal potassium phosphate in shock, III, 514.
- Stern, P. See Cerkovnikov, E., and Prelog, V.
- Stern, R. L., familial hereditary oedema (Milroy's disease), III, 94.
- Stern, R. M., and Frazier, W. C., physiological characteristics of lactic acid bacteria near maximum growth temperature. I. Growth and acid production. II. Respiration, III, 432.
- Hegarty, C. P., and Williams, O. B., detection of *B. thermoacidurans* (Berry) in tomato juice and cultivation in the laboratory, III, 279.
- Sternberg, L., seasonal somnolence, a possible pollen allergy, III, 532.
- Sterne, M., dosing of powdered drugs to small animals, III, 836.
- Sterne, T. E., meteors, I, 105.
- Stetina, I. See under Sarudi, I.
- Stetten, De W., jun., metabolism of a paraffin, III, 580.
- and Grail, G. F., micro-extraction and micro-titration of fatty acids, II, 247. Rates of replacement of depot and liver fatty acids in mice, III, 757.
- Stetter, G. [with Jentschke, W., Schachinger, E., and Maresch, E.], ionisation produced by single α -rays in different gases, I, 269.
- Steurer, E. See Hess, K.
- Stevenin, T. G., and Allen, J. G., aliphatic hydrocarbon densities; correlation in the critical region, I, 254.
- Stevens, B. See Bellis, C. J.
- Stevens, C. M. See Schenck, J. R.
- Stevens, G. W. W., removal of unwanted image layer from one side of double-coated X-ray film negatives, I, 286.
- Stevens, H. See Bernton, H. S., and Spies, J. R.
- Stevens, J. R., and Beutel, R. H., 3:4-substituted pyridines. II. β -4-Pyridylpropionic acid, II, 242.
- Stevens, M. E. T., Ronan, A. K., and Boyd, E. M., seasonal variations in water content of respiratory tract of man and other mammals, III, 871.
- Ronan, A. K., Sourkes, T. S., and Boyd, E. M., expectorant action of creosote and guaiacols, III, 424.
- See also Boyd, E. M.
- Stevens, R. See Widger, S. W.
- Stevens, R. E., and Schaller, W. T., rare alkalis in micas, I, 171.
- See also Grimaldi, F. S.
- Stevenson, A., and Forbes, R. P., nitrobenzene poisoning, III, 139.
- Stevenson, D. P., ionisation and dissociation by electron impact; Δ^a -butene, I, 153.
- and Hippel, J. A., ionisation of argon and neon by electron impact, I, 2. Ionisation and dissociation by electron impact: (a) n-propyl chloride and *tert*-butyl chloride; (b) isobutylene, propane, and propylene, I, 116.
- and Schomaker, V., structures of gallium and indium trihalides, I, 33.
- See also Hippel, J. A., and Langer, A.
- Stevenson, J. W., and Reed, G. B., chemotactic response to staphylococcus strains of varying pathogenicity, III, 213.
- Stevenson, L. A. See Stevenson, V. L.
- Stevenson, P. C. See Turkevich, J.
- Stevenson, S. S., [blood] carbonic anhydrase in newborn infants, III, 715.
- Stevenson, V. L., and Stevenson, L. A., gonadotropic hormone in ovarian dysfunction, III, 740.
- Steward, F. C., effect of ringing and transpiration on mineral uptake, III, 534.
- Stewart, C. A. See Sako, W.
- Stewart, C. E. See Futch, C. E.
- Stewart, D. J., and Jones, F. G., individual variation in immunity, III, 434.
- Stewart, E., jun. See Buthod, P.
- Stewart, F. H., papillary variation in bacteria, and bacterial cytology, III, 847.
- Stewart, F. H. (Aberdeen), chemical data on a silica-poor argillaceous hornfels and its constituent minerals, I, 27.
- Stewart, G. W., variation in structure of water in ionic solutions. II, I, 121.
- Stewart, H. B. See Wolff, E. G.
- Stewart, H. C., and Lorenz, E., adenocarcinoma of pyloric stomach and other gastric neoplasms in mice induced with carcinogenic hydrocarbons, III, 249. See also Lippincott, S. W.
- Stewart, H. J., and Evans, W. F., peripheral blood flow in Graves' disease, III, 549.
- and Heuer, G. J., operative treatment in constrictive pericarditis, III, 162.
- Stewart, H. L. See Hartwell, J. L., and White, J.
- Stewart, H. L., jun., and Pratt, J. P., influence of suckling stimulus on lactation, III, 741.
- Stewart, J. D., oral and parenteral use of vitamin-K active substances in hypo-prothrombinæmia, III, 903.
- and Rourke, G. M., changes in blood and urine after intravenous amino-acid mixture in patients with liver disease, III, 485. See also Butsch, W. L.
- Stewart, M. A., carbon disulphide in control of sylvatic plague vectors, III, 198.
- Stewart, M. J., and Allison, P. R., microscopic focus of oat-cell carcinoma in bronchiectatic lung, III, 332.
- Stewart, O. J., complex compounds: their derivation and nomenclature, I, 262.
- Stewart, S. F., relationship between cause and distribution of spasticity in childhood, III, 308.
- Stewart, T. D. (California). See Harman, D.
- Stewart, T. D. (Washington), skeletal remains from Paracas, Peru, III, 451. Distribution of cranial height in South America, III, 784.
- Stewart, V. E. See Hodnett, E. M.
- Stewart, W. B. See McCouch, G. P.
- Steyskal, H. See Kluge, W.
- Stickle, R. See Grummitt, O.
- Stickney, J. C., effect of oil of peppermint, dehydrocholic acid, and disodium phosphate on gastric emptying in dogs, III, 892.
- and Van Liere, E. J., erythrocytes and haemoglobin values in acclimatisation produced by discontinuous anoxia, III, 381.
- Stieglitz, E. See Pummerer, R.
- Stieglitz, E. J., pertinent problems of geriatric medicine, III, 817.
- Stier, E., bile pigments. XXXVI. Action of yeast and ascorbic acid on haemins, II, 142.
- Stier, L. G., coefficients of thermal diffusion of neon and argon and their variation with temperature, I, 121.
- Stierstadt, O. See Rottgardt, J.
- Stiles, G. W., laying hens poisoned by quicklime, III, 139.
- Stiles, M. H., desiccated thyroid in treatment of low-grade chronic illness in children, III, 389.
- Stiles, M. T., and Kolb, A. M. M., brom-sulphalein retention in low-grade chronic illness [and liver insufficiency], III, 247.
- Stiles, M. T. See Stiles, M. H.
- Still, B. M. See Wokes, F.
- Still, E. U. See Hardt, L. L.
- Stille, U., ionisation potential of nitrogen molecule, I, 219. Error in relation to problem of atomic constants, I, 271. See also Cario, G.
- Stillman, E. G., preservation of pneumococcus by freezing and drying, III, 437.
- Stillman, N., Entenman, C., Anderson, E., and Chaikoff, I. L., phosphorylation of fat in absence of adrenal glands measured with radioactive phosphorus, III, 322.
- Stillman, R. C. See Ferguson, R. H.
- Stilwell, E. F., photodynamic action of neutralized on embryonic chick cells grown *in vitro*, III, 544.
- Stimson, M. M., and Reuter, M. A., ultra-violet absorption spectra of nitrogenous heterocycles. VI. Effect of pH on spectrum of uracil-5-carboxylic acid. VII. Effect of hydroxy-substitutions on ultra-violet absorption of the series: hypoxanthine, xanthine, and uric acid, II, 209.
- See also Loofbourouw, J. R.
- Stiner, F. M. See Clarke, C. D.

- Stirmann, F.**, role of carbohydrates in infantile nutrition in wartime, III, 751.
Stitt, P. G., post-infectious encephalomyelitis, I.
Stiven, D. See Brodie, J.
Stock, A., mercury content of human organism. XXX. Effect and distribution of mercurv., III, 658.
Stock, C. C., and **Francis, T. jun.**, inactivation of virus of lymphocytic choriomeningitis by soaps, III, 609.
Stockar, W. See Fierz-David, H. E.
Stockmayer, W. H., theory of molecular size distribution and gel formation in branched-chain polymers, I, 126.
Stockström, E. See Dimroth, K.
Stockton, A. See Holman, E.
Stoddard, F. J., and **Metzger, I.**, clinical comparison of oestrogenic preparations, III, 30.
Stoddard, K. B. See Chance, J.
Stodola, F. H., iodoform micro-test for the higher alcohols and ketones, II, 147.
Stoerk, H. C. See Carnes, W. H.
Stoesser, A. V., influence of acute infection on plasma-lipins and course of eczema, III, 40.
 Significance of inhalant allergens in treatment of bronchial asthma in children, III, 464.
Stofer, B. E., and **Kline, L. L.**, postmortem study of renal pelvis in relation to hypertension, III, 655.
Stognii, N. I., apparatus for filtering in a stream of inert gas, I, 320.
Stohlman, E. F. See Smith, M. I.
Stohr, G., oral hormone therapy in anovulatory bleeding, III, 241.
Stoilova, E. R., comparison of German strains of *Bact. larva*, the cause of foul brood in the honey-bee, III, 211.
Stokes, A. R. See Lipson, H.
Stokes, E. H., normal heart and conditions simulating cardiac disease, III, 161.
Stokes, J., jun., and **Henle, W.**, control of epidemic influenza, III, 609.
O'Neil, G. C., **Shaffer, M. F.**, **Rake, D. P. G.**, and **Maris, E. P.**, results following inoculation of children with egg-passage measles virus, III, 609.
 See also **Henle, W.**, **McGuinness, A. C.**, **Maris, E. P.**, and **Sommer, H. E.**
Stokes, J. C. See Burdon, K. L.
Stokes, J. H., and **Beerman, H.**, psychosomatic correlations in allergic conditions, III, 100.
Stokes, J. L., and **Martin, B. B.**, influence of buffer and glucose in the *Lactobacillus casei* assay for pantothenic acid, III, 577.
Peck, R. L., and **Woodward, C. R. jun.**, antimicrobial action of pyocyanine, hemipyocyanine, pyocyanase, and tyrothricin, III, 342.
 and **Woodward, C. R. jun.**, formation of tyrothricin in submerged cultures of *Bacillus brevis*, III, 919.
Stokstad, E. L. R., growth factor for *Lactobacillus casei*, III, 921.
Stoland, O. O. See Boughton, L. L.
Stoll, A., **Becker, B.**, and **Hofmann, A.**, ergot alkaloids. VIII. Products of fission of ergocrinine, ergocryptine, and ergocornine, II, 400.
Helfenstein, A., and **Renz, J.**, heart glycosides. XX. Structure of scilliroside, II, 184.
 and **Hofmann, A.**, ergot alkaloids. IV. Optically active hydrazides of lysergic and isolysergic acid. VI. Partial synthesis of alkaloids of type of ergobasine. VII. Alkaloids of ergotoxine group; ergocrinine, ergocryptine, and ergocornine, II, 282, 283, 399.
Hofmann, A., and **Peyer, J.**, ergot alkaloids. V. Synthesis of optically active β -amino-alcohols, II, 252.
Stoll, E. K. See Schmid, Gerhard.
Stolzar, I. H. See Eckardt, R. E.
Stone, C. F. See Smith, C.
Stone, D. M. See Dax, E. C.
Stone, H. See Selye, H.
Stone, J. B., and **McCarthy, J. C.**, mineral and metal variations in veins of Fresnillo, Zacatecas, Mexico, I, 28.
Stone, L. S., and **Farthing, T. E.**, return of vision after repeated transplantation of adult salamander eye, III, 641.
Stone, R. S., and **Larkin, J. C. jun.**, treatment of cancer with fast neutrons, III, 571.
 See also **Low-Bear, B. V. A.**, and **Soley, M. H.**
Stone, R. W., **Fenske, M. R.**, and **White, A. G. C.**, bacteria attacking petroleum and oil fractions, III, 431.
Stone, S., non-specific therapy in anterior poliomyelitis, III, 636. Wheat-germ oil [vitamin-E] in treatment of congenital non-obstructive hydrocephalus, III, 874.
Stone, W. See Thygesson, P.
Stone, W. E., acid-soluble phosphorus compounds of cerebral tissue, III, 726.
Stoneburner, W. See Frankel, J. S.
Stonehill, H. I., thallous-thallous redox potential in nitric and perchloric acids, I, 130. Salt error of quinhydrone electrode in aqueous nitric acid, and potentials of hydroquinhydrone and quino-quinhydrone electrodes, I, 130. Acids and bases, I, 257.
 and **Berry, M. A.**, revised constants for Debye-Hückel theory, I, 61.
Stoner, M. E. See Slutsky, B.
Stoppani, A. O. M., pharmacology of colour regulation in amphibia, and importance of endocrine glands, III, 424. Endocrine glands and pharmacology of colour in frogs, III, 734.
Storlazzi, E. D. See Elkins, H. B.
Storwick, C. A., and **Hauck, H. M.**, effect of controlled ascorbic acid ingestion on urinary excretion and plasma concentration of ascorbic acid in normal adults, III, 256.
 See also Lewis, J. S.
Story, R. V. See Cholak, J.
Stose, G. W., source beds of manganese ore in Appalachian Valley, I, 140.
Stoty, E., colorimetric determination of acetaldehyde in blood, III, 716.
Stotz, E. See Westerfeld, W. W.
Stout, A. B., and **Chandler, C.**, hereditary transmission of induced tetraploidy and compatibility in fertilisation, III, 445.
Stout, A. P., carcinoid tumours of rectum derived from Erspamer's pro-enterochrome cells, III, 492. Cellular origin of bronchial adenoma, III, 820.
 and **Murray, M. R.**, neuroepithelioma of radial nerve; its behaviour *in vitro*, III, 572.
 See also Murray, M. R.
Stoutemeyer, V. T., comparison of rooting induced by acid- and amide-growth substances, III, 614.
Stoves, J. L., histology of mammalian hairs, III, 80. Structure of keratin fibres, III, 400.
Stowell, R. E., use of *tert*.butyl alcohol in micro-technique, III, 80. Photometric histochemical determination of thymonucleic acid in experimental epidermal carcinogenesis, III, 183. Spectrophotometric analysis of tissue staining, III, 545.
 See also Cramer, W.
Stowens, D., effect of ultra-violet irradiation on *Trichinella spiralis*, III, 199.
Stoye, W. See Tropp, C.
Straat, H. W. See Forrest, J. W.
Strain, H. H., chromatography and colloid chemistry illustrated by leaf pigments, III, 447.
Hardin, G., and **Manning, W. M.**, chlorophyll-c (chloropucine) of diatoms and dinoflagellates, III, 703.
 and **Manning, W. M.**, isomerisation of chlorophylls *a* and *b*, II, 73.
Strain, W. H. See Platf, J. T.
Strait, L. A. See De Orme, K. B.
Straka, R. P. See Prater, A. N.
Strakosch, E. A., ointments containing salicylic acid, III, 516. Sulphur-containing ointments, III, 674. Ointments. I. Penetration of ointment bases, III, 817.
Strakosch, E. A., and **Clark, W. G.**, penetration of sulphonamides from various ointment bases into intact skin of guinea-pigs; analysis of tissue-sulphonamides, III, 507.
 See also Clark, W. G., and Tsuchiya, H. M.
Stran, H. See Hellman, L. M.
Strandskov, F. B. See Wyss, O.
Straneo, (Sigma) C., phenolic behaviour of buchu-camphor and its derivatives. II. Comparison with phenols and keto-enols [in pH of dilute aqueous solutions], II, 97.
Strange, J. W., chemical and physical properties of luminescent materials, I, 297.
Strangeways, W. I. See King, H.
Stranski, I. N., behaviour of non-polar crystals just below the m.p. and at m.p., I, 55.
 Melting process in non-polar crystals, I, 55.
 and **Suhrmann, R.**, melting in single-crystal tungsten wires, I, 147.
 See also Mahl, H.
Strassburger, P. J. See Jervis, G. A.
Strassmann, F. See Hahn, O., and Mattauch, J.
Strassmann, G. See Helpert, M., and Vance, B. M.
Strating, J. See Backer, H. J.
Stratman-Thomas, W. K. See Dulaney, A. D.
Straub, F. B., purification of malic acid dehydrogenase and significance of cell structure for malic acid dehydrogenation, III, 141.
Straub, J., bromine content of human blood, III, 716.
Straumanis, M., use of three-dimensional reciprocal lattice for determination of translation- and space-groups, I, 53. Lattice constants of red lead, I, 83. Construction of reciprocal space-lattice from Debye-Scherrer diagrams, I, 145.
 and **Dravnieks, A.**, polarographic analysis of calc spar, I, 263.
 See also Cirulis, A., Dravnieks, A., and Ievins, A.
Straumfjord, J. V., vernix caseosa: manifestation of vitamin-A deficiency, III, 663.
Straus, O. H., and **Goldstein, A.** [with Plachte, F. L.], zone behaviour of enzymes; effect of dissociation constant and dilution of system choline-esterase-eserine, III, 842.
Straus, W. L., jun., rudimentary digits in primates, III, 156.
 See also Fleischmann, W.
Strauss, A. A. See Appel, M.
Strauss, A. M., erythrocyte aplasia following sulphathiazole, III, 907.
Strauss, E. See Finland, M.
Strauss, Hans, Rahm, W. E. jun., and **Barrera, S. E.**, electroencephalographic studies in children with psychiatric disorders, III, 99.
 See also Liberson, W. T.
Strauss, Hyman, radium applicator for treatment of corporal carcinoma, III, 199.
Strauss, L. See Bornstein, S., and Gunther, L.
Strauss, M. B. See Spain, W. C.
Strauss, S., and **Langendorf, R.**, bilateral partial bundle branch block, III, 460.
 See also Lev, M.
Strausz, E. See Foldes, F.
Street, H. R., influence of aluminium sulphate and hydroxide on absorption of dietary phosphorus by rats, III, 405.
 See also Hartman, F. A.
Streeter, G. L., developmental horizons in human embryos; description of age group XI, 13 to 20 somites, and age group XII, 21 to 29 somites, III, 541.
Streicher, M. H., sulphonamides in ulcerative colitis, III, 134.
Streightoff, F. See Landy, M.
Strickler, E. W. See Strickler, H. S.
Strickler, H. S., **Shaffer, C. B.**, **Wilson, D. A.**, and **Strickler, E. W.**, steroid glucuronide from human urine, III, 656.
Strickroot, F. L., **Schaeffer, R. L.**, and **Bergo, H. L.**, myasthenia gravis in infant born of myasthenic mother, III, 635.
Striewsky, W. See Schmid, E.
Stringer, L. D. See Hunter, F. R.
Stringfellow, M. B. See Syverton, J. T.

- Stringham, B. F., mineralisation in West Tintic mining district, Utah, I, 292.
- Strohmaier, R. E., jun. See Gaebler, O. H.
- Strolberg, M. See Lufkin, N. H.
- Stromberg, A., theory of viscosity of liquid mixtures, I, 10.
- See also Karpatschev, S.
- Strong, F. M. and Carpenter, L. E., preparation of samples for microbiological determination of riboflavin, III, 189.
- See also Krehl, W. A., and Teply, L. J.
- Strong, J. C. See Vail, D.
- Strong, L., origin of inbred mice, III, 183.
- Strong, L. C., genetic analysis of induction of tumours by methylcholanthrene; absence of sex influence when large dose of carcinogen is administered, III, 819.
- Collins, V. J., and Durand, E. A., genetic analysis of induction of tumours by methylcholanthrene. IV. Probable remote induction of gastric lesions, III, 747.
- See also Burdette, W. J., Collins, V. J., and Kirschbaum, A.
- Strong, M. E. See Katzin, L. I.
- Strong, P. S. See Hodes, H. L.
- Strong, R. A. See Flax, L. J.
- Strong, W. O., jun. See Morton, A. A.
- Stross, F. H., and Evans, R. J., physical constants of *N*-octyl-, -dodecyl-, and -eetyl-piperidine, I, 34.
- Struckmeyer, B. E., mineral pattern of stems from vegetative and flowering plants as determined by micro-incineration, III, 446.
- Strumia, M. M., preservation of prothrombin in dried plasma, III, 159.
- and McGraw, J. J., preservation of blood plasma, III, 83. Method and apparatus for shell freezing and rapid drying of plasma and other products from frozen state by low-temperature water vapour condensation *in vacuo*, III, 863.
- Strunz, H., crystal chemistry. I. Isotypism and isomorphism, I, 221. Isotypism with occupation of vacant lattice spaces; $\text{Fe}^{++} + \text{[PO}_4^{3-}]_2\text{H}_2\text{O}$ and $\text{Fe}^{++} + \text{[PO}_4^{3-}]_2\text{H}_2\text{O}$, I, 221.
- Struve, O. See Smith, B., and Swings, P.
- Stryker, W. A., and Janota, M., vitamin-A deficiency and intestinal permeability to bacteria and toxin, III, 407.
- Stuart, A. H. See Blanchard, E. W.
- Stuart, C. A., Wheeler, K. M., Rustigian, R., and Zimmerman, A., biochemical and antigenic relationships of paracolon bacteria, III, 603.
- See also Rustigian, R., and Wallick, H.
- Stuart, C. K. See Bartels, E. C.
- Stuart, G. J. See Pollard, H. M.
- Stuart, H. A., molecular structure of liquids in experiments with models, I, 221.
- Stuart, H. C. See Vickers, V. S.
- Stuart, K., physiological basis for use of oestrogens in veterinary practice. III. Mummified foetus treated with stilboestrol, III, 172.
- Stuart, L. S., and Goresline, H. E., bacteriological studies on "natural" fermentation process of preparing egg white for drying, III, 276. Bacteria from fermenting egg white and production of pure culture fermentations, III, 433.
- Stuart-Harris, C. H., agglutination of fowl red cells by influenza viruses, III, 529.
- See also Ende, M. van den.
- Stubbe, H. See Pfankuch, E.
- Stubenbord, W. D., paroxysmal auricular fibrillation in association with hiatus hernia, III, 630.
- Stuck, W. G. See Venable, C. S.
- Stuckey, J., and Coco, R. M., blood pictures of active and hibernating ground squirrels, III, 710.
- Stuckey, R. E., ultra-violet absorption spectra of barbituric acid derivatives. III. Ionisation and 5-monosubstituted barbituric acid derivatives. IV. 5,5'-Disubstituted barbituric acid derivatives, II, 106.
- Studdert, T. C. See Miller, H. G.
- Studer, S. See Goldberg, M. W.
- Studhalter, B. A., and Glock, W. S., apparatus for production of artificial frost injury in branches of living trees, III, 290.
- Stucken, H. See Carr, E. P.
- Stuhl, F., vitamin-C subnutrition in gingivostomatitis, III, 902.
- Stuhlinger, E., liberation of single secondary electrons by mesotrons and electrons, I, 215.
- Stull, A., Sherman, W. B., and Wing, W. M., purification of water-soluble fractions in ragweed pollen; study of alkali-soluble fractions and estimation of these fractions in pollen extract, III, 289.
- Stull, D. R., and Mayfield, F. D., heat capacities of hydrocarbon gases, I, 223.
- Sturgis, C. C. See Bethell, F. H.
- Sturgis, S. H., obtaining uterine fluid from the monkey; effect of pilocarpine, atropine, physiological salt solution, and adrenaline, III, 479.
- Sturm, E. See Murphy, J. B.
- Sturtevant, J. M. See Reid, C. C.
- Sturz, O. See Bohm, E.
- Stutzman, J. W. See Allen, C. R.
- Styron, C. W., Bromley, H., and Root, H. F., sulphadiazine and sulphathiazole in diabetes, III, 418.
- See also Root, H. F.
- Subbarow, Y., chemistry of anti-pernicious anaemia substances of liver, III, 125.
- Subramanian, K. S. See Mukhopadhyay, B. K.
- Subramanian, M. K. V., artificial germination of rice pollen, III, 854.
- Suby, H. I., and Albright, F., solution of phosphatic urinary calculi by retrograde introduction of citrate solution containing magnesium, III, 567.
- Succolowsky, O. See Schramek, W.
- Sucksmith, W. See Hoselitz, K.
- Suden, C. tum. See Wyman, L. C.
- Sudheimer, R. L. See Quortrap, E. R.
- Süllmann, H., lipoxidase in legume seeds, III, 778. Inhibitors of enzymic oxidation of unsaturated fatty acids, III, 915.
- Suen, T. J., and Fan, S., catalytic degradation of heptaldehyde in vapour phase, II, 293.
- Suess, H., behaviour of hydrogen bromide in nuclear processes of bromine, I, 206. Chemical processes involving radio-bromine; behaviour of ethyl bromide on radio-activation in the gas phase and reaction between active bromine atoms produced and acetylene, I, 206.
- Sütö-Nagy, J. See Ludany, G.
- Sugar, H. S., place of haemorrhagic glaucoma in aetiological classification of glaucoma, III, 104. Measuring depth of anterior chamber, III, 104. Anatomic factors that influence depth of anterior chamber, III, 311. Paradoxical esotropia during cycloplegia, III, 877.
- Sugarbaker, E. L. See Martin, Hayes E.
- Sugarman, B., ultra-violet absorption spectrum of formic acid, I, 295.
- Sugarman, N. See Freed, S.
- Sugasawa, S., Kakemi, K., and Kazumi, H., syntheses of nitrogen ring compounds. XX. Synthesis of dibenzpyridocoline derivatives. III. Synthesis of 3':4''-3'':4''-tetramethoxy-1:4:5:8-tetrahydro-2:3:6:7-dibenzpyridocoline [etc.], II, 310.
- Kodama, K., and Inagaki, H., syntheses of nitrogen ring compounds. XXI. Synthesis of dibenzoquinolizine derivatives. IV. Synthesis of 2':3':2'':3''-tetramethoxy-1:2:6:9-tetrahydro-3:4:7:8-dibenzquinolizine, II, 386.
- Sakurai, K., and Okayama, T., syntheses of nitrogen ring compounds. XXIII. Synthesis of ethyl 2':3'-dimethoxy-9-methyl-3:4:6:7:8:9-hexahydro-1:2-benz-quinolizine-7-carboxylate, II, 387.
- and Shigehara, H., syntheses of nitrogen ring compounds. XXII. Oxidation of β -phenylethylpyridinium salts. II., II, 386.
- Sugden, S., magnetochemistry, I, 252.
- Sugg, J. Y. See Hehre, E. J.
- Sugihara, J. See Kinney, C. R., and Mackinney, G.
- Sugimoto, K. See Kawai, S.
- Suginome, H., and Shimanouti, F., aconite alkaloids. XV. Kobusine, a new aconite alkaloid, II, 344.
- Sugiura, K., relation of diet to development of gastric lesions in rat, III, 491. Effect of feeding wheat germ oil on production of liver cancer by butter-yellow, III, 569.
- and Rhoads, C. P., effect of yeast feeding on experimentally produced liver cancer and cirrhosis, III, 127.
- See also Zahl, P. A.
- Sugiyama, N. See Kawai, S.
- Suhrmann, R., and Dehmel, F. W., variation of thermionic and photo-electric emission constants of silver oxide-cæsium cathodes during activation, I, 29.
- and Schnackenberg, H., course of disorder-order transition reaction in films of pure metals, I, 83. Kinetics of order-disorder transformations in metal films, I, 276.
- See also Stranski, I. N.
- Suida, H., and Drahowzal, F., cetene (Δ^a -hexadecene), II, 77.
- Sulk, J. E. See Francis, T., jun.
- Sulkin, N. M. See Evans, T. C.
- Sulkin, S. E., Douglass, D. D., and Bronfenbrenner, J., effect of bacteriophage in experimental staphylococcal septicæmia in rabbits, III, 65.
- Sullivan, D. J. See Billig, O.
- Sullivan, J. A. See Buxton, C. L.
- Sullivan, J. M., and Munslow, R. A., gynaecomastia, III, 120.
- Sullivan, M., and Evans, V. J., nutritional dermatoses in the rat. VIII. Vitamin-A deficiency, III, 497.
- Sullivan, M. X., Hess, W. C., and Howard, H. W., determination of both cystine and cysteine in mixtures, II, 52. Behaviour of cystine dimethyl ester dihydrochloride and of cysteine monomethyl ester mono-hydrochloride in Sullivan reaction for cysteine and cystine, II, 83.
- See also Hess, W. C., and Irreverre, F.
- Sullivan, R. A., Bloom, E., and Jarmol, value of dairy products in nutrition. III. Riboflavin, pantothenic acid, nicotinic acid, and biotin content of cheese, III, 575.
- Sullivan, W. R. See Link, K. P.
- Sulman, F., Levy-Hochman, S., and Tietz, H. G., selective bismuth melanosis of female genital tract induced by treatment with sex hormones, III, 740.
- See also Zondek, B.
- Sultan, E. H. See Cutting, W. C.
- Sultzberger, J. A., micro-determination of arsenic in biological material, III, 704.
- Sulzberger, M. B. See Hecht, R.
- Sulzberger, R. See Schwazzenbach, G.
- Sulzer, R., counting blood platelets, III, 624.
- Sumerford, W. T., [alkaloids of] *Pinckneya pubens*, Michaux, III, 540.
- Dalton, D., and Johnson, R., [colorimetric] determination of an alkali carbonate in presence of an alkali hydrogen carbonate, I, 162.
- Summers, R. D., Morgan, R., and Reimann, S. P., semicircular canals as device for vectorial resolution, III, 475.
- See also Morgan, R.
- Sunner, F. B., and Lanham, U. N., metabolism of warm and cool spring fishes, III, 668.
- Sumner, J. B., demonstration of an induced, or coupled, reaction, I, 103.
- See also Gjessing, E. C.
- Sumner, R. J., lipin oxidase. II. Specificity of lipoxidase. III. Relation between carotene oxidation and enzymic peroxidation of unsaturated fats, III, 200. Lipin oxidase; determination of lipoxidase activity, III, 426.
- Sumwalt, M., Lusk, H. A., and Oswald, H. R., influence of acetoxy group of morphine derivatives on respiration of rabbits, III, 197.

- Sumwalt, M., Miller, A. T., and Wright, C. I.**, effect of muzzling phenolic OH group of morphine derivatives on respiration in rabbits, III, 196.
- and **Oswald, H. R.**, effect of substitutions on carbon-14 of morphine derivatives on respiration in rabbits, III, 196. Effect of substituting an additional group in ring-three of morphine derivatives on respiration of rabbits, III, 197.
- Sun, K. H., and Silverman, A.**, parachors and radii, I, 177. Interconversions of multi-component compositions by graphical methods, I, 228.
See also **Huggins, M. L.**
- Sun, T. P.** See **Kwok, T. H., and Lee, C. H.**
- Sundara Rao, W. V. B., and Sastry, V. V. K.**, unreliability of resorcinol-periodate test for hyponitrites, I, 284.
- Sunderman, F. W.**, significance and interpretation of phosphatase measurements in disease, III, 201. Permanent standard for haemoglobin measurements, III, 455. Water and electrolyte distribution in diabetes mellitus, III, 458.
- Sundralingam, A.** See **Farmer, E. H.**
- Suntzeff, V.** See **Carruthers, C., and Wicks, L. F.**
- Supplee, G. C., Bender, R. C., and Hanford, Z. M.**, interrelated influence of thiamin, riboflavin, pantothenic acid, and vitamin-B₆ on liver-glycogen reserves, III, 129.
See also **McClendon, J. F.**
- Sur, A. R.** See **Bhattacharyya, S. K.**
- Suranyi, L. A.** See **Berenwandt, A.**
- Sur, B., and Ford, Z. W., jun.**, vitamin interrelationships. II. Aneurin and riboflavin interrelationships in metabolism, III, 189. Influence of thiamin, riboflavin, pyridoxine, and pantothenic acid on nitrogen metabolism, III, 413. Influence of hyperthyroidism on urinary excretion of thiamin and riboflavin, III, 881.
- Surgeon, D. M.** See **Thompson, A. F., jun.**
- Surkov, E. I.** See **Kuzminich, I. N.**
- Surmatis, J. D.** See **Whitmore, F. C.**
- Suschtschinski, M. M.**, intensity of lines of dispersion of combination in solutions of different dilution as a function of concentration, I, 116.
- Susman, W.**, quantitative variations of pancreatic islet tissue in mixed series of cases, III, 110.
- Sussman, M. L., and Copleman, B.**, osteoporosis in Cushing's syndrome [due to adrenal neoplasms], III, 169.
- and **Dack, S.**, abnormal roentgenkymograms in myocardial infarction [with normal electrocardiogram], III, 549.
- Sussman, R. M.** See **Brown, G., and Touroff, A. S. W.**
- Susz, B., and Berenstein, M.**, Raman spectra of a solid peroxide, benzoyl peroxide, and a solid anhydride, benzoic anhydride, I, 5.
- Sutcliffe, R.**, portable gas generator, I, 266.
- Suter, C. M., and Bordwell, F.**, sulphonation of β -methylallyl chloride; mobility of the olefinic linking in unsaturated sulphonic acids, II, 214.
- and **Milne, H. B.**, interaction of indene and styrene bromohydrins with sodium sulphite; cleavage of alkali sulphonates with sodium in liquid ammonia, II, 228.
- and **Ruddy, A. W.**, condensation of amino-alcohols with benzene, II, 258.
- and **Weston, A. W.**, physiologically active phenylethylamines containing a *tert.* hydroxyl, II, 61.
- See also **Bair, R. K., Campagne, E., and Weston, A. W.**
- Suter, H.** See **Naegeli, C.**
- Suter, H. A.** See **Feigl, F.**
- Sutherland, A. M.**, treatment of functional uterine haemorrhage with [liver] anti-menorrhagic factor, III, 115.
- Sutherland, C.**, preparation of house dust extracts, III, 443.
- Sutherland, C. G.**, pancreas; small intestine, III, 177.
- Sutherland, G. F., and Hoskins, R. G.**, schizophrenia in a hypogonadal man, III, 235.
- Sutherland, M. L.** See **James, N.**
- Sutherland, M. M. J.** See **Sharp, W.**
- Sutherland, P. L.** See **Hodgson, R.**
- Sutliff, W. D.**, mortality from diseases treated with sulphonamides, III, 583.
- Sutter, H.** See **Feigl, F.**
- Sutton, D. A.** See **Farmer, E. H.**
- Sutton, H. B.**, intraperitoneal sulphathiazole, III, 265.
- Sutton, P. P.**, laboratory determination of heat of transition of sulphur, I, 182.
- Sutton, T. S.** See **Krauss, W. E., and Monroe, C. F.**
- Suzman, M. M.** clinical aspects of vitamin-B deficiency in South Africa, III, 188.
- Suzuki, S.** See **Yamafuji, K.**
- Svaetichin, G.** See **Granit, R.**
- Svartholm, N.**, electronic distribution and chemical reactivity in condensed unsaturated hydrocarbons, II, 223.
- Svedberg, T.** See **Mosimann, H.**
- Svejda, A. J.** See **Essenberg, J. M.**
- Svensson, H.**, electrophoresis apparatus for preparative purposes, I, 166.
- Sventitzki, N. S.**, step weakener for spectrochemical analysis in the ultra-violet, I, 238. Stabilisation of alternating current arc used for quantitative spectrochemical analysis, I, 239. Universal source of excitation of spectra, I, 318.
- Sverdlick, J.**, hypophysis and adrenals and retinal pigment of *Bufo arenarium*, III, 733.
- Sveschnikov, A. T., and Koleva, N. V.**, determination of hygroscopic moisture in crystalline hydrates, I, 313.
- Sveschnikov, B. J.**, chemiluminescent reactions of oxidation with hydrogen peroxide, I, 64.
See also **Zelinski, V. V.**
- Sveschnikova, I. N.**, analysis of nucleus development and of changes of thymonucleic acid in ontogenesis, III, 451.
- Svihla, A.** See **Thorson, T.**
- Svirbely, W. J., and Peterson, S.**, rate of conversion of ammonium cyanate into carbamide in non-aqueous solvents. VI, I, 157.
See also **Davis, R.**
- Swain, C. G.** See **Lingane, J. J.**
- Swain, G., and Todd, A. R.**, indeno-2'3':2-3-benzanthrone, II, 12.
- Swain, L. A.**, vitamin-A investigations. V. Adsorption from treated dogfish liver oil, III, 254.
- Swale, F. S.** See **Green, R. G.**
- Swales, W. E., Allen, D., and Collier, H. B.**, effects of phenothiazine on horses. I. Haematology and pharmacology, III, 196.
- Ashton, G. C., Cloquette, L., and Crampston, E. W.**, relation of blood-haemoglobin concentrations to rate of gain in suckling pigs, III, 371.
- Sylvestre, P. E., and Williams, S. B.**, control measures for parasitic diseases of sheep, III, 512.
- Swami, G. B. L.** See **Sarma, P. S.**
- Swan, C., and Mawson, J.**, experimental mumps: transmission of disease to monkeys: attempts to propagate the virus in developing hens' eggs, III, 925.
See also **Mawson, J.**
- Swan, K. C., and White, N. G.**, corneal permeability, III, 102.
See also **Salit, P. W.**
- Swan, W. G. A.** See **Herbert, F. K.**
- Swank, R. L., and Bessey, O. A.**, cardiac failure in thiamin-deficient pigeons, III, 408.
and **Jasper, H. H.**, electroencephalograms of thiamin-deficient pigeons, III, 727.
See also **Yeomans, A.**
- Swann, E.** See **Nelson, O. E.**
- Swann, H. C.**, topical application of sulphonamides in veterinary practice, III, 264.
- Swann, H. G., Collings, W. D., Cline, J. K., and Dernehl, C. U.**, negative water balances during exposures to low barometric pressures, III, 464.
- Swann, W. F. G.**, nature of primary particles responsible for cosmic-ray phenomena, I, 190.
- Swanson, C. P.**, differential sensitivity of prophase pollen tube chromosomes to X-rays and ultra-violet radiation, III, 596.
- Swanson, E. E.** See **Powell, C. E.**
- Swanson, E. W., and Herman, H. A.**, variations in bull semen and their relation to fertility, III, 243.
- Herman, H. A., and Ragsdale, A. C.**, biological values of lespedeza, lucerne, corn, and milk proteins for growing dairy heifers, III, 495.
- Swanson, L. E.** See **Emmel, M. W.**
- Swanson, M.** See **Artom, C.**
- Swanson, P.** See **Klendshoj, N. C., and Witebsky, E.**
- Swanson, P. P., Armstrong, W. E., and Nelson, P. M.**, breeding records of rats fed diets containing meat, III, 661.
- Swartley, J. C., and Chadwick, L. C.**, effects of synthetic growth-substances on cuttings, seeds, and transplants, III, 445.
- Swartz, H.** See **Burke, V.**
- Swartzwelder, J. C., and Adams, C. C.**, protein-tirosine reaction as diagnostic test for malaria, III, 69.
- Swayne, V. R., jun.** See **Fleming, R. B. L.**
- Sweany, H. C.**, underlying principles and minimum standards of laboratory examination for tubercle bacilli, III, 286.
See also **Sher, B. C.**
- Sweeney, H. M.** See **Handley, C. A.**
- Sweeney, T. R.** See **Dudley, H. C., and Lawton, A. H.**
- Sweet, L. A.** See **Rawlins, A. L.**
- Sweet, R. H.**, lung abscess, III, 163.
- Sweet, W. H.** See **Light, G.**
- Swendseid, M. E., Burton, I. F., and Bethell, F. H.**, excretion of keto-acids and hydroxyphenyl compounds in pernicious anaemia, III, 786.
- Swenson, T. L., and Humfeld, H.**, production of active and inactive catalase by *Proteus vulgaris*, III, 272.
- Swift, W. W.** See **Matthews, C. A.**
- Swift, L. J., and Walter, E. D.**, isolation of lupeol from osage orange (*Maclura pomifera*, Raf.), II, 96.
- Swift, R. W.** See **Black, A., and Voris, Le R.**
- Swingle, K. F., Axelrod, A. E., and Elvehjem, C. A.**, effect of calcium salts on succinoxidase system, III, 141.
See also **Axelrod, A. E.**
- Swingle, W. W., Remington, J. W., Drill, V. A., and Kleinberg, W.**, adrenal steroids in circulatory failure, III, 238.
- Swings, P.**, molecular bands in cometary spectra; identifications, I, 174.
and **Struve, O.**, spectrographic observations of peculiar stars. IV, I, 109. Continuous emission in spectra of gaseous nebulae, I, 110.
- See also **Edlén, B., and Popper, D. M.**
- Swinney, R. E.** See **Mackenzie, G. M.**
- Swittes, H. L.** See **Creecy, A.**
- Switzer, R. L.** See **Cuneo, J. F.**
- Sykes, C.** See **Jones, F. W.**
- Sykes, G.** See **Coulthard, C. E.**
- Sykes, W. P.**, solidus temperatures in systems iron-tungsten and iron-molybdenum, I, 12.
- Sylvestre, P. E.** See **Swales, W. E.**
- Sym, J. C. B.** See **Hain, A. M.**
- Synge, R. L. M.** See **Gordon, A. H.**
- Syvertson, J. T., Ackart, R. J., Adams, W. S., Ervin, D. M., Haskins, A. L., jun., Lawrence, J. S., Saunders, R. H., jun., Stringfellow, M. B., and Wetrich, R. M.**, virus of infectious feline agranulocytosis. I. Pathogenicity. II. Immunological relations to other viruses, III, 528.
- Berry, G. P., and Dascomb, H. E.**, carcinogenesis in rabbits. I. Malignant tumours induced in cottontail rabbits by injection of methylcholanthrene in tricaprylin, III, 38.

- Szasz, G. J. See Aston, J. G., and Ray, F. E.
- Szécsenyi-Nagy, L., and Hatz, E. B., use of carbon monoxide in determination of blood volume, III, 712.
- Szeghő, F. See Schulek, E., and Vastagh, G.
- Szegö, C. M., and Barnes, R. H., dietary fatty livers in mice and sensitivity to exogenous oestrogen, III, 811.
- Szekeres, H. See Földi, Z.
- Szekessy, W., micro-application of Fujita and Iwatake's method of determining blood-sugar, III, 715.
- Szendel, A. J., symptoms of potassium deficiency in carnation plants, III, 699.
- Szepenwol, J., symbiotic cultures of somatic, intestinal, and cardiac muscle of chick embryos, III, 792.
- Szönyi, G. See Karrer, P.
- Szilifogel, S. See Prelog, V.
- T.
- Ta, Y. See Heller, W.
- Tabenkin, B. See Lockwood, L. B.
- Taber, E. See Domm, L. V.
- Tabor, H., and Hastings, A. B., ionisation constant of secondary magnesium phosphate, I, 227.
- Taboury, F. J., Raman spectra and structure of ketonic complexes of antipyrine and of carbone, I, 116.
- Tabrah, F. L. See Emery, F. E.
- Tadros, W., and Schonberg, A., preparation of oestrogen β -bromo- β -phenyl- $\alpha\alpha$ -di- p -phenylethylene, II, 325.
- Taufel, K. [with Heinisch, H., and Heimann, W.], occurrence of squalene in plant fats, III, 702.
- and Heimann, W., occurrence of squalene in plant and animal fats, III, 854.
- and Muller, R., breakdown of fat. X. Role of catalase, III, 682.
- Taffel, M., repair of tracheal and bronchial defects with free fascial grafts, III, 381.
- See also Elkinton, J. R.
- Tageevo, N. V., zirconium-alizarin method of determining fluorine in natural waters, I, 68. Fluorine and boron in natural waters, and their bearing on occurrence of petroleum, I, 73.
- Tager, A., and Kargin, V. A., reversibility of solutions of cellulose nitrate, benzylcellulose, and gelatin. I. Solution and swelling of cellulose esters. II., I, 152.
- Tager, B. N., male hypogonadism: effect of treatment on genital growth and maturity, III, 393.
- and Kirsch, H. W., creatinine excretion in women: clinical significance in obesity, III, 414.
- and Shelton, E. K., personality changes in endocrine disorders, III, 650.
- Tager, M., and Klinghofer, K. A., acute thrombocytopenic haemorrhagic purpura with lymphocytosis, III, 787.
- Tagger, J., determination of surface tension with Mohr balance, I, 26.
- Tagnon, H. J., significance of fibrinolysis in coagulation of blood, III, 84.
- Davidson, C. S., and Taylor, F. H. L., proteolytic enzyme prepared from calcium- and platelet-free normal human blood plasma, III, 84. Coagulation defect in haemophilia: comparison of proteolytic activity of chloroform preparations of haemophilic and normal human plasma, III, 302.
- See also Kaplan, M. H.
- Taha, S. M. See Barker, H. A.
- Tahmisan, T. A., enzymes in ontogenesis: choline-esterase in developing *Melanoplus differentialis* eggs, III, 619.
- Tai, W. S., intensities of metallic lines in the ultra-violet spectrum of α^2 Canum Venaticorum, I, 110.
- Tai, Y. K. See Lee, F. H.
- Tainter, M. L., Ludnena, F. P., Lackey, R. W., and Neur, E. N., actions of a series of diphenylethylamines, III, 677.
- See also Novelli, A. N.
- Takacs, W. S. See Toomey, J. A.
- Takahashi, W. N., virus inactivator from yeast, III, 274.
- Takahashi, W. Y. See Nicholson, H. C.
- Takeda, Y., and Ohta, T., carotenoid of *Mycobacterium phlei*, III, 694. Polysaccharides from tubercle bacilli and from tuberculin, III, 694.
- Taki, S. See Kasai, Y.
- Tal, E. M. See Lurie, J. J.
- Talanov, N. D., laboratory penetrometer, I, 320.
- Talbot, J. C. See Eaton, M. D.
- Talbot, N. B., Berman, R. A., and Butler, A. M., adrenal cortical hyperplasia with virilism; diagnosis, course, and treatment, III, 110.
- Berman, R. A., Butler, A. M., McLachlan, E. A., and Rodriguez, P. M., excretion of 17-ketosteroids by normal and by abnormal children, III, 656.
- and Butler, A. M., urinary 17-ketosteroid assays in clinical medicine, III, 481.
- Ryan, J., and Wolfe, J. K., determination of sodium dehydroandrosterone sulphate in water or urine, III, 780.
- See also Butler, A. M.
- Talbot, S. A., synchronised calibrator for sweep and gain in cathode-ray recording, I, 265.
- See also Harvey, A. M., and Marshall, W. H.
- Talbot, T. R., jun., and Adcock, J. D., febrile reactions resulting from re-administration of sulphadiazine, III, 907.
- Talbot, J. H., water and salt requirements in health and disease, III, 405.
- Castleman, B., Smithwick, B. H., Melville, R. S., and Pecora, L. J., renal biopsy studies correlated with renal clearance observations in hypertensive patients treated by radical sympathectomy, III, 894.
- See also Roughton, F. J. W.
- Taliaferro, W. H., and Klüver, C., haematology of malaria (*Plasmodium brasiliense*) in Panamanian monkeys. I. Numerical changes in leucocytes. II. Morphology of leucocytes and origin of monocytes and macrophages, III, 86.
- Talipov, S. See Tananaev, I. V.
- Talley, E. A., and Evans, W. L., synthesis of an epimeric pair of trisaccharides containing mannose units, II, 220.
- Reynolds, D. D., and Evans, W. L., synthesis of disaccharide acetates in the mannose series, II, 220.
- Tallman, R. C. See Blanchard, E. W.
- Tamamushi, B., Akiyama, H., and Ishii, K., kinetics of rearrangement of *cis-trans*-isomerides in gaseous state under influence of foreign gases. II. Dichloroethylene, I, 310.
- Tamerin, J. See Rothman, M.
- Tamura, J. T., and Gibby, I. W., cultivation of *Bacterium tularensis* in simplified liquid media, III, 694.
- Tananaev, I. V., and Talipov, S., determination of aluminium as cryolite, I, 236.
- Tananaev, N. A., and Podtschainova, V. N., detection of copper ion, I, 316.
- Tangen, R. See Hole, N.
- Tanko, B., and Munk, L., carboligase problem, III, 682.
- See also Bodnar, J.
- Tannenbaum, A., genesis and growth of tumours. II. Effects of caloric restriction *per se*. III. Effects of a high-fat diet, III, 127.
- Tannenbaum, A. J. See Moore, G. B., jun.
- Tanner, F. W., and Appling, J. W., bactericidal effect of ultra-violet rays on non-spore-forming bacteria and mould spores, III, 601.
- and Wilson, F. L., germicidal action of aliphatic alcohols, III, 832.
- Tanner, N. C., gastro-duodenal surgery in aged, III, 564.
- Tanney, A. D., and Lilienfeld, A., cardiovascular aspects of carotid sinus hypersensitivity with special reference to cardiac arrhythmias, III, 91.
- Tanquary, M. C. See Haydak, M. H.
- Tarachow, S. See Bieber, I.
- Tarail, R. See Shelley, W. B.
- Taran, L. M. See Weisz, A.
- Tarbell, D. S., Mallatt, R. C., and Wilson, J. W., acidic and basic catalysis in urethane formation, I, 20.
- and Paulson, M. C., asymmetric syntheses involving Grignard reagent in optically active solvents, II, 129.
- and Vaughan, J. R., jun., thermal decomposition of quaternary ammonium phenoxides, with reference to Claisen rearrangement, II, 186.
- See also Fletcher, J. H., and Todd, C. W.
- Tarkow, L., Fellers, C. R., and Levine, A. S., relative inhibition of micro-organisms by glucose and sucrose syrups, III, 206.
- Tarlov, I. M., Goldfarb, A. I., and Benjamin, B., measuring tensile strength and stretch of plasma clots, III, 6.
- See also Goldfarb, A. I.
- Tarnoky, A. L. See Balfe, M. P.
- Tarnower, H., value and limitations of electrocardiography, III, 89.
- and Lattin, B., tachycardia in newborn, III, 229.
- Tarr, H. L. A., action of nitrites on bacteria, III, 434.
- and Carter, N. M., effect of sodium nitrite on experimental animals, III, 424.
- Tartakovski, I. S. See Filippova, N. S.
- Tartar, H. V. See Paquette, R. G., and Scott, A. B.
- Tartter, A. See Wieland, H.
- Tasman, A., and Brandwijk, A. C., experiments on metabolism with *C. diphtheriae* III, III, 211.
- Tat, R. J., Greenwalt, T. J., and Dameshek, W., output of bile pigment by infants and children [relation to blood destruction], III, 710.
- See also Dameshek, W.
- Tatarinova, L. I. See Pinsker, Z. G.
- Tate, A. See Rigdon, R. H.
- Tate, B. E. See Price, C. C.
- Tatlock, H. See Blake, F. G.
- Tatsuta, H. See Fujise, S.
- Tatum, A. L. See Clausen, N. M., and Longley, B. J.
- Tatum, E. L., Garnjobst, L., and Taylor, C. V., vitamin requirements of *Colpoda duodenaria*, III, 823.
- See also Wagendonk, W. J.
- Taub, A., and Luckey, W. H., [stability of] chlorobutanol in parenteral solutions, III, 522.
- See also Bell, S. A.
- Taub, J., and Lefkowitz, L., agranulocytosis due to sulphanilamide, III, 195.
- Taube, Harry. See Eichna, L. W.
- Taube, Henry, reactions in solutions containing O_2 , H_2O_2 , H^+ , and Br^- ; specific rate of reaction between O_2 and Br^- , I, 64. Disappearance of thiosulphate in solutions of maleic acid; catalysis of *cis-trans*-isomerisation, I, 205.
- Taubenhaus, M., and Soskin, S., insulin resistance in toxæmic states, III, 111.
- See also Soskin, S.
- Tanber, A. H. See Tauber, O. E.
- Tanber, E. S., effects of castration on sexuality of adult male, III, 122.
- and Daniels, G. E., sex hormones and psychic conflict, III, 100.
- Tauber, F. W., and Krause, A. C., role of iron, copper, zinc, and manganese in metabolism of ocular tissues, with reference to lens, III, 470.
- Tauber, H., Goll, M., and Laufer, S., colour test for citrinin; its preparation, II, 75.
- and Laufer, S., colour reaction for natural pigments and phenols, II, 288.

- Tauber, O. E., and Griffiths, J. T., jun., isolation of *Staph. albus* from haemolymph of cockroach, III, 357.
- Tauber, A. H., Joyce, C. R., and Bruce, W. N., toxicity of dinitrophenols to the American dog tick, *Dermacentor variabilis* (Say.), III, 591.
- See also Grayson, J. McD., and Griffiths, J. T., jun.
- Taubock, K., products of reaction of flavonols with boric acid and organic acids and its significance for anchoring of boron in plant organs, II, 69.
- Taufen, H. J., Murray, M. J., and Cleveland, F. F., Raman spectra of four pairs of meso- and dl-disubstituted butanes, I, 249.
- Taurog, A., Chaikoff, I. L., and Perlman, I., effect of anaerobic conditions and respiratory inhibitors on *in vitro* phospholipin formation in liver and kidney with radioactive phosphorus as indicator, III, 46.
- Taussky, H. See Shorr, E.
- Tawde, N. R., and Patankar, V. S., intensity theories in band spectra. I. Hutchisson's theory. II. Langstroth's theory, I, 294. and Unvala, H. A., temperature determinations in theory and practice, I, 138.
- Taylor, A., Hofer, M. J., Pollack, M. A., and Williams, Roger J., β -vitamins in cancerous tissues. II. Nicotinic acid. IV. Pantothenic acid, III, 491.
- Pennington, D., and Thacker, J., growth of cancer tissue in yolk sac of chick embryo, III, 491. Effect of high levels of pantothenic acid on reproduction in rat and mouse, III, 500.
- Pollack, M. A., and Williams, Roger J., uniformities in content of B vitamins in malignant neoplasms, III, 491.
- See also Ågren, G., and Pollack, M. A.
- Taylor, A. C. See Weiss, P.
- Taylor, A. McM., application of Spekker photo-electric absorptiometer to determination of vitamin-C, III, 412.
- Taylor, A. N. See Painter, T. S.
- Taylor, A. R., Beard, D., Beard, J. W., Finkelstein, H., and Sharp, D. G., influence of ultra-violet light on equine encephalomyelitis virus protein (Eastern strain), III, 440.
- Beard, D., Beard, J. W., and Sharp, D. G., isolation and properties of macromolecular component of normal chick embryo tissue, III, 223. Nucleic acid of rabbit papilloma virus protein, III, 251. Electrophoretic analysis of extracts of rabbit papillomas, III, 332. Neutralisation of purified papilloma virus. II. Reversibility of serum effect by simple dilution, III, 332. Isolation and properties of equine encephalomyelitis virus (Eastern strain), III, 529. Electron micrography of Eastern strain equine encephalomyelitis virus, III, 529.
- Beard, J. W., and Sharp, D. G., influence of pH on molecular stability of equine encephalomyelitis virus protein (Eastern strain), III, 68.
- See also Sharp, D. G.
- Taylor, C. B., bacteriology of fresh water. III. Types of bacteria present in lakes and streams and their relationship to bacterial flora of soil, III, 278.
- Taylor, C. V. See Tatum, E. L.
- Taylor, D. See Ritchie, M.
- Taylor, D. B. See Bell, J.
- Taylor, E. L., phenothiazine poisoning, III, 267.
- See also Horton-Smith, C.
- Taylor, E. S., procurement of blood for armed forces, III, 457.
- Taylor, F. See Gillison, J. A.
- Taylor, F. H. L. See Adams, M. A., Kaplan, M. H., and Tagnon, H. J.
- Taylor, F. S., origin of the thermometer, I, 73.
- Taylor, F. W., sulphanilamide for chronic haemolytic streptococcal ulcers of extremities, III, 135. Local irritation with sulphonamides, III, 136.
- Taylor, G. L., Race, R. R., Prior, A. M., and Ikir, E. W., frequency of iso-agglutinin in serum of subgroups A_2 and A_2B , III, 6. Optimal proportions of antigen and antibody in Rh tests, III, 370.
- See also Hamilton-Paterson, J. L.
- Taylor, H. C., jun., hormones and pregnancy toxemias, III, 479.
- Mecke, F. E., and Twombly, G. H., oestrogen and 17-ketosteroid excretion in patients with breast carcinoma, III, 898.
- See also Twombly, G. H., and Welch, C. A.
- Taylor, H. F., cutting wide-bore glass tubing and repairing partly broken chemical glassware, I, 44.
- Taylor, H. K., and Shulman, I., cardioangiography with diodrast as diagnostic aid in cardiology, III, 162.
- Taylor, H. L., and Keys, A., fractionation of normal serum-proteins by electrophoretic and sodium sulphate methods, III, 714.
- Taylor, H. M., clinical study of menstruation with reference to primary dysmenorrhoea, III, 115.
- Taylor, H. S. See Black, J. F.
- Taylor, Jean. See Pollack, M. A.
- Taylor, Joan. See Ormiston, G.
- Taylor, J. D. See Baxter, J. G.
- Taylor, J. K. See Smith, E. R.
- Taylor, M. C. See McAulay, A. L.
- Taylor, M. W. See Russell, W. C.
- Taylor, N. B. See Greenwood, W. F.
- Taylor, R. D., and Page, I. H., effect of antipressor kidney extract, angiotonin, methylguanidine, and tyramine on cardiac output as measured by ballistocardiograph in hypertensive and normal persons, III, 550.
- See also Page, I. H.
- Taylor, R. E. See Weston, W. A. R. D.
- Taylor, R. M., and Chialvo, R. J., inoculating into amniotic sac of chick embryos, III, 522.
- Taylor, S. See Court, D.
- Taylor, S. G. See Thompson, W. O.
- Taylor, T. I. See Huggett, C.
- Tchernomorets, I. See Adler, S.
- Teague, D. M., Galbraith, H., Hummel, F. C., Williams, H. H., and Macy, I. G., effects of desiccation procedures on chemical composition of faeces, urine, and milk, III, 400.
- See also Beach, E. F.
- Teague, P. C. [with Felsing, W. A.], total and partial pressures of binary mixtures of dioxane in benzene, at 25°, I, 198.
- Teahan, R. W., Wammock, H., and Weatherwax, J., interstitial radiation in carcinoma of cervix, III, 572.
- Tebbens, W. G., jun. See Russell, A.
- Teichmann, H., reaction kinetics of "knocking" process. II. Spontaneous ignition of hydrocarbon-air mixtures and "knocking," I, 230.
- Teichmüller, M. See Meldau, R.
- Teis, R. V., and Florenski, K. P., distribution of isotopes of hydrogen and oxygen during freezing of water, I, 159.
- Teitelman, S. L. See Cardon, L.
- Telang, M. S., critical pressure from b.p. and parachor data, I, 57. Parachors and molecular diameters, I, 145. Parachor and latent heat of vaporisation, I, 149.
- See also Tillu, M. M.
- Telfer, S. V. See Dunn, J. S.
- Telford, E. D., cervical rib and hyperhidrosis, III, 366. Sympathectomy in treatment of cryopathies, III, 875.
- Te Linde, R. W. See Bennett, H. G.
- Teller, E. See Axilrod, B. M.
- Tellez-Plasencia, H., generalisation of Bragde Broglie principle of rotatory focalisation for X-rays; application to two-crystal spectrographs; focalisation and mosaic structure, I, 287.
- Temkin, M. I., adsorption equilibrium and kinetics of processes on heterogeneous surfaces or in presence of an interaction between adsorbed molecules, I, 124. Theory of calibration of rheometers, I, 240.
- Templin, J. L. See Tuttle, W. W.
- Tenenbaum, E. See Doljanski, L.
- Tenenbaum, L. E., and Jensen, H., catecholase (tyrosinase), III, 56, 349.
- See also Jensen, H.
- Tenenberg, D. J. See Tsuchiya, H. M.
- Tennant, R. See Gerstl, B., McFarland, W. J., and Plaut, J. A.
- Tennant, D. M., and Silber, R. H., excretion of ascorbic acid, thiamin, riboflavin, and pantothenic acid in sweat, III, 664.
- Tennant, H. G., and Vilbrandt, C. F., sedimentation and diffusion behaviour of nucleic acid preparations, II, 245.
- Tenney, B., and Parker, F., oestrogenic content of cirrhotic livers, III, 179.
- Tenow, M. See Fredga, A.
- Teodorovitsch, G. I., sulphur as an indicator in prospecting for oil, on evidence obtained in region of Sterlitamak-Ishimbævo, I, 76. Dolomitisation of reefogenic formations in oil-bearing region of Ishimbævo, I, 76. Dolomitisation in eastern massif of Ishimbævo oil region, I, 108.
- Teply, L. J., Axelrod, A. E., and Elvehjem, C. A., sulphapyridine bacteriostasis of *Lactobacillus arabinosus* and its counteraction, III, 581.
- Elvehjem, C. A., and Strong, F. M., distribution of nicotinic acid in foods, III, 190. Nicotinic acid, pantothenic acid, and pyridoxine in wheat and wheat products, III, 410.
- See also Briggs, G. M., jun.
- Tepperman, J., Engel, F. L., and Long, C. N. H., effect of high-protein diets on size and activity of adrenal cortex in albino rat, III, 883. Adrenal cortical hypertrophy, III, 883.
- Terenin, A. N., and Neuimin, H. G., infra-red emission of electric discharge in molecular gases and its significance for chemical kinetics, I, 80.
- Teresi, J. D., Elvehjem, C. A., and Hart, E. B., molybdenum in nutrition of rat, III, 663.
- Terry, D. H. See Lutz, R. E.
- Terry, R. J., inclination of saddle surface of trapezium with respect to angle between thumb and wrist, III, 781.
- Terry, T. L., fibroblastic overgrowth of persistent tunica vasculosa lentis in premature infants. II. Clinical aspects. III. Development and regression of hyaloid artery and tunica vasculosa lentis, III, 312, 470.
- Terzian, L. A. See Pearce, A. E.
- Terzioglu, M. See Winterstein, H.
- Tesi, U., system aluminium chloride in liquid sulphur dioxide. I. Electrolytic conductivity. II. Specific gravity of solutions, I, 37, 122.
- Tetwin, I. J. See Kaplan, H. M.
- Teuber, H. J. See Leuchs, H.
- Tey, A., Griscuolo, E., and Marhuenda, P., vitamin-C treatment of torpid skin ulcers, III, 825.
- Thacker, E. J. See Voris, LeR.
- Thacker, J. See Taylor, A.
- Thalmiwer, W., intravenous injection of pooled plasma or serum, III, 622.
- Thannhauser, S. J. See Schmidt, G.
- Thatcher, F. S., osmotic and permeability relations in parasitism, III, 538. Cellular changes [in wheat] in relation to rust-resistance, III, 702.
- Thatcher, J. S. See Edelmann, A., and Hartman, F. A.
- Thayesen, A. C., value of micro-organisms in nutrition (food yeast), III, 520.
- Thea, A. R. See Senturia, B. H.
- Theilacker, W., and Schmid, W., determination of sulphur in organic compounds by hydrogenation, II, 247.
- Theimer, H. See Huttig, G. F.
- Theis, E. R., and Jacoby, T. F., acid-base-binding capacity of collagen, I, 127. Acid-base-, and salt-binding capacity of salt-denatured collagen, I, 226. Acid- and base-binding capacity of heat-denatured collagen, III, 517.

- Theis, F. V., scalenus anticus syndrome and cervical ribs, III, 297.
 Theis, K. See Siedel, W.
 Theobald, C. W. See Adams, R.
 Theodoreescu, (Mile) M., Raman effect in polybromallic complexes, I, 31.
 Teodorovitsch, G. I. See under Teodorovitsch, G. I.
 Theorell, H., apparatus for micro-determination of magnetic susceptibility, I, 319.
 Reversible cleavage of a peroxidase, III, 518. Mol. wt. of crystalline horse-radish peroxidase, III, 681. Haemoprotein linking in haemoglobin and horseradish peroxidase, III, 841.
 and Agner, A., magnetic and other properties of crystalline horse-liver catalase and derivatives, III, 841.
 and Akeson, A., nitrogen distribution and basic amino-acids in horseradish peroxidase and horse-liver catalase, determined by new micro-method, III, 840.
 Akeson, A., and Bergstrom, S., complex of peroxidase protein with haems, III, 841.
 Thiel, A., fundamental quantities and symbols in light absorption, I, 5.
 Thieme, T., and Maddock, W. G., primary tuberculous peripheral vascular disease, III, 231.
 Thienes, C. H. See Ellis, C. H.
 Thiersch, J. B., intrasternal bone marrow grafts of foetal organs in man: adrenal cortex grafts in treatment of Addison's disease, III, 646.
 Thiessen, G. W., and Beste, L. F., application of polarising microscope [to qualitative study of reactions], I, 100.
 Thilenius, R., gas burette with mechanical reduction of gas volume to normal conditions, I, 286.
 Thilo, E., and Schwartz, U., silicates, XI. Further experiments with pyrophyllite and comparison of its reactions with those of talc, I, 312.
 Thiruvankatchar, V. R. See Rao, K. S.
 Thiry, C., treatment of gonorrhoeic arthritis with sulphathiazole, III, 49.
 Thoai, N. ton., phosphomonoesterases and pyrophosphatases in Basidiomycetes, III, 201.
 Thoene, H. See Matthiessen, G.
 Thom, C. See Steinberg, R. A.
 Thomas, A. W. See Bailey, M. and Little, R. W.
 Thomas, C. C., sarcoidosis, III, 493.
 Thomas, D. G. See Anderson, L. C.
 Thomas, D. S. jun. See Weissberger, A.
 Thomas, E. D. See Lochte, H. L.
 Thomas, E. M., total and fractional blood-lipin levels in nephrotic syndrome, III, 816.
 Thomas, F. S. See Eversole, W. G.
 Thomas, G. See Deichmann, W.
 Thomas, I. See Hodge, H. C.
 Thomas, J. A., action of *p*-aminobenzenesulphonamide on chromatin of sea-urchin eggs during segmentation, III, 113.
 Thomas, J. E., gastric secretion, III, 564. See also Berk, J. E., Pincus, I. J., and Ramsay, A. J.
 Thomas, J. M., alcoholism and mental disorders, III, 589. See also Bina, A. F.
 Thomas, J. O., DeEds, F., and Cox, A. J., chronic toxicity of diphenylene sulphide to the albino rat, III, 269. See also DeEds, F.
 Thomas, L., Curnen, E. C., Horsfall, F. L. jun., Mirick, G. S., and Ziegler, J. E. jun., complement fixation with dissimilar antigens in primary atypical pneumonia, III, 849.
 and Dingle, J. H., protection of mice against meningococcal infection by sulphadiazine, and inhibition of protection by *p*-aminobenzoic acid, III, 338. Bacteriological aspects of meningococcal infection, III, 771. Bacterial action of normal and immune sera for meningococcus, III, 921.
 Dingle, J. H., and Smith, H. Webster, immunological aspects of meningococcal infection, III, 774.
 Thomas, L. B., and Oliver, F., accommodation coefficient of mercury on platinum and heat of vaporisation of mercury, I, 13. Accommodation coefficients of helium, neon, argon, hydrogen, deuterium, oxygen, carbon dioxide, and mercury on platinum as a function of temperature, I, 254.
 Thomas, L. E. See Banner, R. E.
 Thomas, McC. J. See Riegel, B.
 Thomas, M. E. See Barker, M. H.
 Thomas, P. E. See Baranger, P. M.
 Thomas, R. C., Caesarean section under spinal analgesia, III, 138.
 Thomas, T. B. See Allen, E.
 Thomas, T. G. See Gould, J. N.
 Thomassen, L. See Raynor, C. L.
 Thominson, B. C., combined frozen and paraffin method for rapid sections, III, 80.
 Thompson, A. F. jun., and Surgeon, D. M., addition of triphenylmethyl to 3-methyl- β -buten- γ -iene, II, 223.
 Thompson, E. See Hughson, W.
 Thompson, A. See Goodman, C.
 Thompson, H. C. See Sakr, E. S.
 Thompson, J. D. See Hines, H. M.
 Thompson, J. U. See Uhlenhuth, E.
 Thompson, J. W. See Greenstein, J. P., and Maver, M. E.
 Thompson, L. C. See Meyer, B. S.
 Thompson, M. de K., specific heat equations for carbon dioxide, carbon monoxide, steam, hydrogen, and oxygen, and free energy equation for the water-gas reaction, I, 9.
 Thompson, M. R. See Marin, G. J.
 Thompson, M. V. See Paterson, E.
 Thompson, P. K. See Thompson, W. O.
 Thompson, R. See Gallardo, E.
 Thompson, R. B. See Penquite, R.
 Thompson, R. C., B-vitamin requirements of *Propionibacteria*, III, 922.
 Isbell, E. R., and Mitchell, H. K., microbiological assay of *p*-aminobenzoic acid, III, 666. See also Mitchell, H. K., and Pollack, M. A.
 Thompson, R. L., and Coates, M. S., effect of temperature on growth and survival of myxoma, herpes, and vaccinia viruses in tissue culture, III, 68.
 Thompson, R. M., neuroblastoma (sympathoblastoma of neuroectoderm) of adrenal medulla, III, 109.
 Thompson, S. A., Birnbaum, G. L., and Shiner, I. S., cardiac resuscitation, III, 376.
 and Raisbeck, M. J., cardio-pericardiopexy: surgical treatment of coronary arterial disease by establishment of adhesive pericarditis, III, 90. See also Birnbaum, G. L.
 Thompson, T. R. See Henze, H. R.
 Thompson, W., sulphapyridine anuria, III, 90.
 Thompson, W. O., and Preston, F. W., persistence and recurrence of toxic goitre following subtotal thyroidectomy, III, 881.
 Taylor, S. G., McNealy, B. W., and Meyer, K. A., treatment of severe thyrotoxicosis, III, 320.
 Thompson, P. K., and Taylor, S. G., thymotropic activity of anterior pituitary, III, 137.
 Thompson, P. K., Taylor, S. G., and Dickie, L. F. N., influence of pituitary in thyroid disease, III, 239.
 Thompson, W. R., modification of calibration apparatus, I, 167.
 Thoms, H., roentgenological evidence of foetal death, III, 325.
 Thomson, D. M. See Greene, R. R.
 Thomson, G. W., nomograph for *P-V-T* relations of gases below the critical point, I, 274.
 Thomson, M. L. See Clark, A. M.
 Thomson, R. M. See Silverman, L.
 Thomson, T. G. H. See Pervival, E. G. F.
 Thorn, G. W., deoxycorticosterone, III, 558.
 and Clinton, M. jun., metabolic changes in patient with Addison's disease following onset of diabetes mellitus, III, 885.
 Thorn, G. W., Dorrance, S. S., and Day, E., Addison's disease: evaluation of synthetic deoxycorticosterone acetate therapy in 158 patients, III, 109.
 Jones, B. F., Lewis, R. A., Mitchell, E. R., and Koepf, G. F., role of adrenal cortex in anoxia, III, 645. See also Clinton, M. jun., and Dorrance, S. S.
 Thornton, C. S., effect of colchicine on limb regeneration in larval *Amolita*, III, 67.
 Thorp, J. M. See Galberg, L.
 Thorry, W. T. S., Shigley, J. F., and Anderson, A. A., sulphapyridine in treatment of calf pneumonia, III, 134.
 Thorson, T., and Sivhla, A., correlation of habitats of amphibians with their ability to survive the loss of body-water, III, 81.
 Thorvaldson, T. See Harns, G. M., and Schneider, W. G.
 Thrower, W. R., and Valentine, F. C., propanamidine in chronic wound sepsis, III, 761.
 Thurnherr, A., treatment of carbon monoxide poisoning, III, 722.
 Thygeson, P., and Stone, W., sulphathiazole ointment in inclusion conjunctivitis, III, 264.
 Tie, G. See Neff, F. C.
 Tiechener, R. L. See Kistakowsky, G. B.
 Tichomirov, M. V. See Petrianov, I. F.
 Tichonov, A. S., application of electrode couple platinum and graphite for potentiometric titration in neutralisation and oxidation-reduction reactions, I, 239.
 Tidwell, H. C., and Cameron, E. S., chemical structure of fats and gastric inhibition, III, 1.6. See also Josephs, H. W., and Tidwell, C. R.
 Tiedcke, C., fractional distillation micro-apparatus, I, 167.
 Tiedemann, O., system aluminium-zinc, I, 59.
 Tiegs, O. W. See Agar, W. E.
 Tiez, E. See Müller, E.
 Tiez, H. G. See Sulman, F., and Zondek, B.
 Tietzmann, J. E. See Doherty, D. G.
 Tiffany, E. J. and Bakkeen, M. L., absorption of bacteriophage by sensitised enterococci, III, 215.
 Tiffeneau, R., and Beauvallet, M., difference in action of drugs on isolated intestine or *in situ* with exo- and endo-intestinal contact, III, 267.
 Tiffin, J., and Kahn, H. S., colour discrimination in industry, III, 314.
 Tilden, E. B., preparation of pectinolose by oxidation of pectin with *Acetobacter suboxydans*, III, 208.
 and Huison, C. S., preparation and properties of the amylases produced by *Bacillus macerans* and *Bacillus polymyxa*, III, 273. See also McGlenahan, W. S.
 Tilden, I. L., and Arnold, H. L. jun., chronic granuloma following intradermal injection of typhoid vaccine, III, 776. See also Judd, J. R.
 Tilenius, G., changes in sunflower seed oil during germination: influence of acetate, III, 73.
 Tillet, W. S., Cambier, M., and Harris, W. H. jun., sulphonamide-taxis pneumococci: two cases of pneumonia: effectiveness of penicillin and tyrothricin against sulphonamide-resistant strains, III, 691.
 Tilley, A. R. See McIndoe, A. H.
 Tilley, F. W., influence of temperature on bactericidal activities of alcohols and phenols, III, 277.
 Tillman, A. J. B., hypertensive-albuminuric pregnancy, III, 479.
 Tillotson, A. J. See Mixer, W. J.
 Tilla, M. M., separation of cobalt from nickel using acetone as a solvent, I, 266.
 and Telang, M. S., alkalimetric determination of cadmium, I, 24. Quantitative separation of calcium from strontium using acetone as a solvent, I, 100. Alkalimetric method of determination of cadmium and zinc, I, 137.
 Timm, E. See Soack, A.
 Timm, J. A., putting tawdry atoms to work, I, 247.

- Timme, W.**, periodicity in endocrinopathic states, III, 556.
Timofeeff-Ressovsky, N. W. See **Born, H. J.**, and **Moglich, F.**
Timonin, M. I., another mould with antibacterial ability, III, 429.
Tingstam, S. See **Adler, Erich**, and **Euler, H. von**.
Tinney, W. S., and **Barnes, A. R.**, interauricular septal defect, III, 78.
Tipson, R. S., **Clapp, (Miss) M. A.**, and **Cretcher, L. H.**, cinchona alkaloids in pneumonia. XI. Ethers of apocoupreine, II, 344. and Cretcher, L. H., diacetone-[diisopropylidene]-xylitol, II, 149.
Tiratsoo, E. N., origin of petroleum, I, 292.
Tischer, L. A. See **Toomey, J. A.**
Tischer, R. G., **Feller, C. R.**, and **Doyle, B. J.**, non-toxicity of laevulinic acid, III, 129.
Tisarius, A., adsorption analysis of solutions, I, 136. Adsorption analysis: experimental arrangement and results with mixtures of glucose and lactose, I, 139. Adsorption analysis of amino-acids and peptides, I, 151. Displacement development in adsorption analysis, I, 187. Electrophoretic analysis and constitution of native fluids, III, 928. and **Claesson, S.**, adsorption analysis by interferometric observation, I, 168. and **Dahl, O.**, enzymic digestion of diphtheria antitoxic globulin, III, 524.
See also **Runnstrom, J.**
Tittsler, R. P., chromogenic strains of *Escherichia*, III, 210.
Tiver, N. S., flax plant. I. Physiology of growth, stem anatomy, and fibre development in fibre flax, III, 216.
Tobey, H. G., Menière's disease; medical treatment, III, 734.
Tobgy, H. A., cytological methods for *Crepis* species, III, 157.
Tobie, W. C., thimble supports for faster Soxhlet extraction, I, 168. Qualitative test for methoxy- and other alkoxy-groups, II, 347.
Tobin, C. E., effects of lactogen on normal and adrenalectomised female rats, III, 23. Effects of thyrotropic hormone on pregnant rat, III, 812.
Tobin, L. H., and **Moore, F. D.**, radioactive disazo-dyes. II. Synthesis and properties of radioactive dibromo-trypan-blue and radioactive dibromo-Evans-blue, II, 362; III, 712.
See also **Moore, F. D.**
Tobler, A. B., and **Pinner, M.**, effect of pleural effusions on growth of *Staphylococcus aureus* *in vitro*, III, 692.
Tobolowsky, N., **Slaughter, D.**, **Johnson, T. U.**, and **Van Duzen, R. E.**, effect of trasentin A, trasentin, and morphine on respiration, III, 421.
See also **Slaughter, D.**
Tobolsky, A., systematic method of obtaining the relations between thermodynamic derivatives, I, 7. Solution of gels, I, 226.
Tod, H., incidence of bromide medication, III, 269.
Todd, A. R. See **Baddiley, J.**, **Bergel, F.**, **Chattaway, F. W.**, **Kenner, G. W.**, **Madinavita, (Mrs.) A.**, **Swain, G.**, and **Weeks, M. E.**
Todd, C. W., **Fletcher, J. H.**, and **Tarbell, D. S.**, sulphurimines derived from sulphanilamide, II, 186.
Todd, W. R., removal of inorganic phosphorus from phosphate solutions by rat bone, III, 895.
Todes, O., and **Zeldovitsch, J.**, kinetics of formation of two-phase systems near the critical point, I, 62.
Todhunter, E. N., ascorbic acid content of rhubarb, III, 539.
Robbins, R. C., and **McIntosh, J. A.**, rate of increase of blood plasma-ascorbic acid after ingestion of ascorbic acid, III, 190.
See also **Brown, A. P.**
- Toennies, G.**, oxidative conversion of casein into protein free of methionine and tryptophan, II, 75.
and **Hommiller, R. P.**, oxidation of amino-acids by hydrogen peroxide in formic acid, II, 122. See also **Bennett, M. A.**
Torngren, O. See **Adler, Erich**, and **Euler, H. von**.
Togasaki, Y., **Rosove, L.**, **Bower, A. G.**, and **Hamilton, P. M.**, treatment, complications, and deaths in 753 cases of clinical diphtheria, III, 63.
Toharsky, B. See **Davidsohn, I.**
Tokin, B., biological role of carcinogenic agents, III, 182.
Toland, V. A. See **Alvis, B. Y.**
Tolksdorff, S. See **Schwenk, E.**
Tolle, C. D. See **Daniel, E. P.**
Tollefson, D. G., analgesia and anaesthesia in labour, III, 763.
Tollenaar, D. See **Smits, A.**
Tollman, J. P. See **Sharpe, J. C.**
Tolmatschev, I. M., absorption spectra of vapours of uranium chlorides, I, 114.
Tolstoi, E., **Almy, T. P.**, and **Toscany, V.**, treatment of diabetes mellitus with protamine insulin; is persistent glycosuria harmful?, III, 111.
See also **Cecil, R. L.**
Tolstoi, N., and **Tzvetkov, V.**, Kerr electro-optical effect in solutions of *p*-azoxyanisole, I, 298.
Toman, J. E. P., and **Oster, R. H.**, muscle potentials accompanying single volitional twitch, III, 96.
Tomarelli, R. See **Gyorgy, P.**
Tomaschov, N. D., cathodic processes at an iron electrode under conditions of corrosion with oxygen depolarisation, I, 131.
Tomb, J. W., shock and sympathetic nervous system, III, 306. Amyl nitrite in treatment of acute aero-otitis media, III, 318.
Tomisek, A. J. See **Price, C. C.**
Tomiser, J. See **Gabler, F.**
Tomita, T., kaersutite from Dogo, Oki Islands, Japan, and its magmatic alteration and resorption, I, 28.
Tomkeeff, S. I., nomogram for law of direction-cosines, I, 103.
and **Peel, R. F.**, igneous rocks from Central Libyan desert, I, 289.
Tomkins, C. A., **Crook, G. W.**, **Haynes, E.**, and **Winters, M.**, pectin in treatment of wounds, III, 762.
Tomkins, E. H., effects of intravenous injections of ether-insoluble fraction of lipins of beef brain [on blood-forming organs], III, 786.
Tomkins, F. S. See **Ewing, D. T.**
Tomlinson, T. H., experimental scurvy and calcium deficiency in monkeys, III, 43.
Tomlinson, W. H., occurrence of sodic seapolite at Falls of French Creek, Pennsylvania, I, 243.
Tomoi, T. See **Nagayama, T.**
Tompkins, E. H., effects [on blood] of repeated intravenous injections of lecithin in rabbits, III, 622.
Tompkins, F. C. See **Mackenzie, H. A. E.**
Tompsett, R. See **McDermott, W.**
Tomski, H. W., barium meals, III, 54.
Tongiorgi, V. See **Cocconi, G.**
Tonkin, I. M. See **Brownlee, G.**
Tonks, E. See **Hickmans, E. M.**
Toohey, M., vitamin-K requirements of newborn, III, 626.
Toomey, J. A., early treatment of poliomyelitis, III, 97. Active immunity, III, 289. Poliomyelitis and neoprontosil, III, 582. Effect of infra-red heat on localised poliomyelitis and neuritis, III, 636. Delayed production of poliomyelitis antibodies, III, 924.
Averill, R., **Lewis, N.**, and **Takacs, W. S.**, relation between amounts of pertussis antigen injected and production of agglutinins, III, 774.
and **Takacs, W. S.**, specific neutralisation of cotton rat strains of poliomyelitis virus, III, 608.
- Toomey, J. A.**, **Takacs, W. S.**, and **Tischer, L. A.**, attempts to produce absorption of poliomyelitis virus by peripheral nerves *in vitro*, III, 441. Poliomyelitis virus from flies, III, 695. See also **Francis, T.**
Toop, C. R., worms in sheep, III, 216.
Topham, A. See **Kenner, G. W.**
Topping, N. H. See **Fraser, H. F.**
Toptschieva, K. V. See **Golubkova, K. M.**, and **Petin, N. N.**
Torda, C., choline-esterase content of tissues without innervation (placenta), III, 519. Effect of chloroform and ether on activity of choline-esterase, III, 598. Effect of chloroform and ether on sensitivity of muscle to acetylcholine, III, 723. Influence of low concentrations of cocaine on metabolism of phenol, III, 909. Effect of cocaine on inactivation of adrenaline and sympathin, III, 909.
Torgersen, O. See **Hultquist, G.**
Toribara, T. Y. See **Willard, H. H.**
Torino, A. See **Cicardo, V. H.**
Torrance, C. C., ascorbic acid concentration of inflammatory lesions of skin, III, 130.
Torre, L. D. See under **Dalla Torre, L.**
Torres-Bracamonte, F. See **Knott, E. M.**
Torrey, T. W., development of urogenital system of albino rat. I. Kidney and its ducts, III, 298.
Toscany, V. See **Shorr, E.**, and **Tolstoi, E.**
Toshniwal, P. M. See **Bhagwat, W. V.**
Totic, J. See **Walker, T. K.**
Totten, H. P., intraperitoneal use of hypertonic glucose, III, 484.
Totter, J. R., and **Day, P. L.**, cataract and other ocular changes resulting from tryptophan deficiency, III, 104. Xanthopterin in treatment of leucopenia and weight-loss in rats fed succinylsulphathiazole, III, 418.
Touraine, G. See **Bruch, H.**
Touriel, E. L., testosterone in treatment of prostatism and benign prostatic hypertrophy, III, 891.
Tourky, A. R., and **El Shamy, H. K.**, analytical studies on 12-heteropoly-acids. I. Determination of silicon in presence of molybdate acid. II. Potentiometric titration of molybdate in presence of silicic or phosphoric acid, I, 99, 101.
Touroff, A. S. W., **Chasnoff, J.**, and **Vesell, H.**, operation for ductus arteriosus with infective endarteritis, III, 92.
and **Sussman, R. M.**, congenital prepyloric membranous obstruction in premature infant, III, 541.
Tovell, R. M., and **Garofalo, M.**, intravenous anaesthesia, III, 196.
Town, A. E., congenital absence of lacrimal puncta in three members of a family, III, 729.
Townley, R. W. See **Henze, H. R.**
Towns, M. B. See **Ferguson, A. L.**
Townsend, E., fatal poisoning by methyl salicylate liniment, III, 515.
Townsend, S. R., and **Begor, F. B.**, pernicious anaemia due to deficiency of extrinsic factor, III, 454.
and **Mills, E. S.**, effect of 3:3'-methylenebis-(4-hydroxycoumarin) in prolonging coagulation and prothrombin time in man, III, 7.
Trabacchi, G. C. See **Amaldi, E.**
Trabaud, L. See **Sabetay, S.**
Tracy, A. H., and **Ross, W. F.**, carbon suboxide and proteins. VII. Malonylpepsin, II, 75. See also **Ross, W. F.**
Tracy, M. M. See **Brues, A. M.**
Trager, W., survival and development *in vitro* of malarial parasite, III, 846.
Tragerman, L. J. See **Prinzmetal, M.**
Trainer, M. T., benzidine and Meyer's tests for blood in milk and urine, III, 789.
Tramer, F., effect of sulphathiazole on body temperature, III, 265.
Tramitz, E. See **Fredenhagen, K.**
Trapp, E. See **Bier, O.**

- Trappe, W., separation of biological fats from mixtures by adsorption. II. Separation of phosphorus- and nitrogen-free lipin fractions, III, 780.
- Traub, B. See Kodicek, E.
- Traub, E. F. See Franks, A. G.
- Traut, E. F., spinal fluid in tuberculous meningitis, III, 165.
- Traut, H. See Dirscherl, W.
- Traut, H. F., and Marchetti, A. A., "granulosa" and "theca" cell tumours of ovary, III, 184.
- Trautz, M., liquid state. I. Two-phase diagrams of internal friction, I, 149. Outcome of chemical reactions, II, 349.
- Travagli, G. See Manzoni-Ansidei, R.
- Travell, J., Rinzler, S. H., and Herman, M., procaine injections for shoulder pain, III, 588.
See also Fox, T. T.
- Treadwell, A. de G., Low-Bear, B. V. A., Friedell, H. L., and Lawrence, J. H., metabolic studies on neoplasm of bone with radioactive strontium, III, 251.
See also Low-Bear, B. V. A.
- Treadwell, C. R., Tidwell, H. C., and Grafa, B. G., jun., liver-glycogen and -lipins in fasted and glucose-fed rats, III, 814.
See also Slaughter, D.
- Treadwell, P. See Ruzicka, L.
- Treadwell, W. D., and Huber, (Fr.) D., constitution of Roussin's salts, I, 155. Cyanide complexes of univalent iron metals, I, 159. and Walti, R., solubility of silicon in aluminium, I, 88.
- Treffers, H. P., Moore, D. H., and Heidelberger, M., antigenic properties of horse serum fractions isolated by electrophoresis and by ultracentrifugation, III, 373.
- Trefilieff, I. A. See Stefanovskaja, Z. F.
- Treibs, A., formation of petroleum, I, 244.
- Treibs, W., autoxidation of oxygen-active acids. V. Viscosimetric and volumetric analysis of the addition of oxygen to the triglycerides. VI. Total analyses of process of autoxidation of methyl esters of linoleic and linolenic acid and hexaenoic acid of cod-liver oil by means of magnesium alkyl halides and nature of mol. multiplication, II, 80, 118.
- Treichler, R., Kemmerer, A. R., and Fraps, G. S., utilisation of carotene and vitamin-A in rats, III, 406.
- Trelease, S. F., identification of selenium indicator species of *Astragalus* by germination tests, III, 293.
- Greenfield, S. S., and DiSomma, A. A., absorption of selenium by maize from *Astragalus* extracts and solutions containing proteins, III, 362.
- Treloar, L. R. G., elasticity of a network of long-chain molecules. I., I, 90. Statistical length of paraffin molecules, I, 299.
- Tremblay, J. A., morphology of idocrase, I, 75.
- Tremble, G. E., earache: common causes and probable nerve pathways, III, 473.
- Trendall, J. H. See Powell, E. O.
- Trentin, J. J., Bergman, A. J., Lewis, A. A., and Turner, C. W., nature of pituitary factor stimulating mammary duct growth, III, 886.
- Meites, J., and Turner, C. W., effect of adrenalectomy on lactogenic hormone and initiation of lactation, III, 560.
See also Meites, J.
- Treon, J. F. See Machle, W.
- Tressler, D. K. See Kirk, M. M., Moyer, J. C., and Zimmerman, W. I.
- Trethewie, E. R., liberation of deaminating enzyme in pneumonia, III, 273.
- Treuting, R. G., and Brick, R. M., micrographic observations of slip lines in α -brass, I, 222.
- Trevorow, V. See Hill, R. M.
- Trey, F., cloud formation by withdrawal of heat by thermal conduction, I, 254.
- Trifonova, K. B., nephelometric determination of nicotine, II, 404.
- Trillat, J. J., microradiography by reflexion, I, 43.
- Trimberger, G. W., menstruation frequency and its relation to conception in dairy cattle, III, 173.
- and Davis, H. P., relation of morphology to fertility in bull semen, III, 480.
- Trimble, H. C. See Carpenter, T. M.
- Trimby, R. H. See Nicholson, H. C.
- Trinkaus, J. B. See Goodrich, H. B.
- Tripathi, R. C., relation between surface tension and vapour pressure of liquids and liquid mixtures, I, 304.
- Tripp, F. See Holmes, A. D.
- Tripp, J. T., Frisch, A. W., Barrett, C. D., jun., and Pidgeon, B. E., specific polysaccharide content of pneumonic sputa, III, 605.
See also Frisch, A. W., and Volk, V. K.
- Trivedi, B. K., chemisorption of oxygen on charcoal, I, 132.
- Trivedi, J. J., and Nargund, K. S., synthetic anthelmintics. V. γ -p-Alkoxyphenylbutyrolactones, II, 131.
See also Dave, K. P.
- Trivedi, P. L., Sethna, S. M., and Shah, R. C., Kostanecki-Robinson reaction. IV. Acetylation, propionylation, and butyrylation of o-crepropiophenone. V. Benzoylation of α -hydroxy-ketones, II, 138, 381.
- Troescher-Elam, E., and Evans, H. M., inadequacy for mice of synthetic diet supplemented with all known vitamin-B factors, III, 664.
- Troger, H. See Mayer-Pitsch, E., and Zinke, A.
- Trombe, F., solubility maximum of boric oxide in concentrated nitric acid, I, 59.
- Troncoso, M. U intrascleral vascular plexus and its relations to aqueous outflow, III, 103.
- Tropea, T., jun. See Fischer, C. C.
- Tropp, C., polarographic researches on proteins. I. Polarography as a research method, II, 314.
and Geiger, F., simplification of glass cleaning with chromic-sulphuric acid, I, 240.
- Geiger, F., and Jühling, L., polarographic researches on proteins. III. Albumin, globulin, fibrinogen, plasma, and serum, II, 314.
- and Stoye, W., polarographic researches on proteins. VI. Plant proteins, III, 349.
See also Jühling, L.
- Troppoli, A. W. See Cutts, M.
- Trotter, M., hair from Paracas Indian mummies, III, 452.
- Trotter, W. R., and Eden, K. C., localised pretibial myxedema in association with toxic goitre, III, 557.
See also Eden, K. C.
- Trounson, E., and Simpson, J. A., jun., polarisation of electrons, I, 118.
- Trowbridge, B. C. See Connell, E. S.
- Trowbridge, E. A. See Brody, S.
- Trowbridge, E. H. See Secunda, L.
- Trowell, H. C., morphology of blood in dimorphic anaemia, III, 226. Anaemias of malnutrition, III, 711.
- Troyan, J. E., density and refractive index of cumene, I, 120.
- Trueblood, D., neurofibromatosis (von Recklinghausen's disease), III, 660. Neurogenic sarcoma, III, 819.
- Truell, R., ranges of secondary electrons in magnesium, I, 46.
- Truem, E. R., structure and deposition of shell of *Tellina tenuis*, III, 300.
- Trurnit, H. J., and Bergold, G., interferometric measurement of film thickness in adsorbed protein monolayers, I, 125.
- Trussell, R. E., and Johnson, G., physiology of *Trichomonas vaginalis*. III. Fermentation of carbohydrates and related compounds, III, 601.
- Tsai, B. See Cotton, A., and Manigault, P.
- Ts'ai, L. S., transparent phase rule model, I, 103.
- Tschajlaschjan, M. C., photoperiodism of chlorotic plants, III, 293. Translocation of flowering hormones in the plant as affected by temperature and narcotics, III, 294.
- Tschajlaschjan, M. C., and Lukovnikov, E. K., development of plants growing under different light conditions as affected by mineral nutrition, III, 444.
- and Shdanova, L. P., tuber formation as controlled by photo-period and pruning, III, 444.
- Tscheischwili, L. See O'Daniel, H.
- Tschenikaeva, E. See Kreps, E.
- Tscherdintzev, S. V., optical and photochemical properties of colloidal centres in silver halide crystals. I.-III, I, 178.
- Tscherdintzev, V. V., frequency of odd and even atomic nuclei, I, 111.
- Tscherniaiev, I. I., optical activity of ammonium compounds of quadrivalent platinum, I, 81.
- Tschernichov, J. A., and Schntzter, E. V., determination of molybdenum by internal electrolysis, I, 317.
- and Uspenskaja, T. A., direct volumetric and gravimetric determinations of cerium and thorium by the iodate method, I, 316.
- Tschursin, M. P. See Finkelstein, B. N.
- Tschiya, H. M., Tenenherg, D. J., Strakosch, E. A., and Clark, W. G., *in-vitro* effect of urea-sulphathiazole combination on sulphathiazole-resistant staphylococci, III, 339.
In-vitro effect of sulphonamides plus urea on *E. coli* in presence of *p*-aminobenzoic acid, III, 339.
See also Clark, W. G.
- Tsunajima, N., structure of the nucleus, I, 2.
- Tsuzuki, Y., Uemura, T., and Hirasawa, N., absorption spectra of substituted nitrobenzenes; resonance effect of substituents, I, 295.
- Tuba, J. See Hunter, G.
- Tuchman, L. See Schifrin, A.
- Tucker, C. W. See Petersen, M.
- Tucker, H. G., jun., and Porter, W. B., hypoglycaemia following alcoholic intoxication, III, 269.
- Tucker, W. S., determination of velocity of sound by employment of closed resonators and the hot-wire microphone, I, 187.
- Tudor, R. B., chemotherapy of infantile diarrhoea: comparison of sulphathiazole and sulphaguanidine, III, 50.
- Tuft, E. H. See McNealy, R. W.
- Tuft, L., and Blumstein, G. I., sensitisation to fresh fruits, III, 290.
- Tuttle, A., and Mitton, K. L., clavicular dysostosis, III, 2.
- Tulane, V. J. See Barnes, R. P.
- Tulipan, L., and Muskatblit, E., generalised moniliasis with proved pathogenicity, III, 521.
- Tullidge, G. M., and Fox, J. T., soluble phenytoin in epilepsy, III, 164.
- Tulus, R. See Breusch, F. L., and Hahn, G.
- Tumerman, L. A., polarisation of fluorescence and law of its decay, I, 50.
- Tumulty, P. A., and Howard, J. E., irradiated ergosterol poisoning, III, 258.
- Tunbridge, R. E. See Wilson, J. V.
- Tunca, M. See Haurowitz, F.
- Tunell, G. See Patterson, A. L.
- Tung, J. Y., and Chang, H. L., complex boric acid-polyhydroxyl compounds, I, 278.
- Tunick, A. M., and Goldbloom, A. A., meningococcal antitoxin in treatment of meningitis, III, 212.
- Tunitzki, N. N., condensation of supersaturated vapours, I, 156.
See also Petrianov, I. V.
- Tunncliffe, D. D. See Rasmussen, R. S.
- Tunncliffe, R., effect of sulphapyridine on phagocytosis and dissociation, III, 133.
- Tupinamba, A. See Greco, J. B.
- Tupper, W. E. See Lemere, F.
- Turrell, R., tattooing with mercury sulphide for intractable anogenital pruritus [and leukoplakia kraurosis], III, 912.
and Leifer, W., morbilliform eruption following sulphaguanidine, III, 136.
- Turkel, H., and Bethell, F. H., biopsy of bone marrow performed by simple instrument, III, 861.

- Turkell, J., and Wilhelm, S. F., excretion of sulphathiazole in tears, III, 583.
- Turkevich, A., and Fred, M., rotational structure of near ultra-violet bands of benzene, I, 142.
- Turkovich, J., removal of adsorbents from chromatographic tubes, I, 73.
- and Stevenson, P. C., infra-red absorption of pyridine vapour, I, 248.
- Turkey, H. B., and Brase, K. D., failure of seedlings of apple, peach, pear, and rose to respond favourably to vitamin-B₁, III, 537.
- Turkiewicz, N. surface activity of sodium sulphonate solutions, and chemical constitution of hydrocarbon radical, I, 304.
- Turnley, L. A., and McClellan, J. T., leucocytic index, III, 624.
- Turnbull, A. H., and Davis, H. C., electrode potentials of metals, I, 182.
- Turnbull, D., and Maron, S. H., ionisation constants of *ac*- and nitro-forms of nitro-paraffins, I, 153.
- See also Maron, S. H.
- Turnbull, F., removal of malignant thymoma in case of myasthenia gravis, III, 723.
- Turneaure, F. S., and Gibson, R., tin deposits of Carguaicollo, Bolivia, I, 211.
- Turner, A. W., and Eales, C. E., *Clostridium edematiens* group, I. "H" and "O" antigenic analysis, III, 848.
- Eales, C. E., and Rodwell, A. W. artificially induced loss of θ -toxin production by *Clostridium welchii* types A and C, III, 63.
- and Rodwell, A. W., ϵ -toxin of *Cl. welchii* type D. I. Proteolytic conversion of ϵ -prototoxin into ϵ -toxin by trypsin and other proteases. II. Development in cultures through action of extracellular proteinases on ϵ -prototoxin, III, 603.
- Turner, C. L., morphogenesis of gonopodial suspensorium in *Gambusia affinis* and induction of male suspensorial characters in female by androgenic hormone, III, 564.
- Turner, C. W. See Bergman, A. J., Elijah, H. D., Hurst, V., Kibler, H. H., Koger, M., Lewis, A. A., Meites, J., Mizner, J. P., Reineke, E. P., and Trentin, J. J.
- Turner, D. L., and Miller, F. R., preparation of concentrates of specific substances from urine and faeces in leukaemia, III, 625.
- See also Marker, R. E.
- Turner, E. E. See Jamison, (Miss) M. M.
- Turner, E. L. See Shoulders, H. S.
- Turner, G. See Hodgson, H. H.
- Turner, H. S. See Hodgson, H. H.
- Turner, J. C., development of cold agglutinins in atypical pneumonia, III, 455.
- and Jackson, F. B., serological specificity of an auto-antibody in atypical pneumonia, III, 922.
- and Mulliken, B., rate of disappearance of subcutaneous vegetable oil in normal and castrate mice, III, 679.
- Turner, J. W. A., indirect injury of optic nerve, III, 804.
- See also Nathan, P. W.
- Turner, K. P. See Altschul, R.
- Turner, M. L., and Hall, V. E., effect of removal of large part of lymphoid system on weight of portion remaining *in situ*, III, 624.
- Turner, O., and German, W. J., metastases in skull from carcinoma of thyroid, III, 898.
- Turner, T. B., and Young, L. E., mouse-adapted Lansing strain of poliomyelitis virus. I. Neutralising antibodies in acute and convalescent serum of poliomyelitis patients, III, 529.
- Turner, W. J., Kress, B. H., and Harrison, N. B., α -naphthol colour test for dihydroxyacetone and hydroxymaleic acid, III, 448.
- Determination of dihydroxyacetone in blood, III, 716.
- Turova-Pollak, M. B., Zelinski, N. D., and Hasan-Zade, G. R., conversion of cyclopentane hydrocarbons of petroleum into cyclohexane hydrocarbons, II, 84.
- Tuttle, W. W., and Templin, J. L., normal cardiac response to water below body temperature (submersion syndrome), III, 304.
- Tweedy, W. R. See Snyder, F. H.
- Twombly, G. H., and Millen, R. S., implantation of solid pellets of oestrogen in treatment of menopausal symptoms, III, 739.
- and Taylor, H. C., jun., inactivation and conversion of oestrogens *in vitro* by liver and other tissues from human cancer patients and from mice of strains susceptible to mammary carcinoma, III, 568.
- See also Taylor, H. C., jun.
- Tyler, A., complement-release reaction, neutralisation of anticomplementary action of sea-urchin fertilisin by antifertilisin, III, 79. Developmental processes and energetics, III, 155.
- Tyler, F. H. See Dorrance, S. S.
- Tynen, J., and Banson, R. M., sperm survival in rubber sheaths, III, 480.
- Tyner, L. E., and Broadfoot, W. C., foot and root rot of wheat. VII. Health of wheat seedlings in nutrient solutions, III, 445.
- Tyrrell, H. J. V. See Woodward, L. A.
- Tyrrell, W. P., Andrews, F. N., and Zelle, M. R., effect of post-pubertal castration on thermo-regulatory function of rat scrotum, III, 34.
- Tysell, J. E. See Doud, E. A.
- Tyslowitz, R., effect of hypophysectomy on concentration of ascorbic acid in rat adrenal, III, 559.
- Tyson, T. L. See Herrick, W. W.
- Tytell, A. A., and Gould, B. S., carboxylase-carboxylyase system of *Fusaria*, III, 429.
- See also Gould, B. S.
- Tytler, W. H., and Lapp, A. D., local application of promin to superficial tuberculous lesions, III, 509.
- Tzitzischvili, G. V., intramolecular hydrogen bond in glyoxaline, I, 144.
- Tzvetkov, V. See Tolstoi, N.
- U.
- Ucko, H., modified Takata reaction in blood and cerebrospinal fluid [and liver disease], III, 179.
- Udenfriend, S. See Brodie, B. B.
- Udesky, H. L. See Anderson, E. R.
- Udovenko, V. V., mol. wt. determinations as a means of physico-chemical analysis, I, 87.
- Ueberreiter, K., freezing of normal liquids and liquids with a "fixed" structure, such as rubber and plastics, I, 149.
- Uemura, T. See Tsuzuki, Y.
- Ugnianov, P. G. See Batalin, V. S.
- Uhl, F. A., capillary electrometer as a galvanometer substitute, I, 186.
- Uhl, K., and Klumpner, K., acidity of silico-fluorides, I, 233.
- Uhle, F. C., and Elderfield, R. C., synthetic glycosides of strophanthidin, II, 220.
- See also Chen, K. K.
- Uhlen, A., effect of injection of tissue extracts on number of blood platelets, III, 227.
- Uhlenbeck, G. E. See Scott, W. T.
- Uhlenhuth, E., Mech, K., Thompson, J. U., and Schenthal, J. E., quantitative approach to study of thyroid secretion, III, 321.
- Uhler, E. M., use of furemethide in comparison with other miotics for treatment of glaucoma, III, 801.
- Uhley, M. H., pulmonary-cerebral effect time as determined by amyl nitrite, III, 91.
- and Katz, L. N., *in-vitro* test for chemotherapeutic agents used in subacute bacterial endocarditis, III, 338.
- Ulkonski, A. S., metachromatism of minerals, I, 140.
- Ulin, A. W., and Barrows, E., prothrombin determination, III, 547.
- Ulrich, H., and Veen, P. van, freezing out of colloids and colloid mixtures with reference to plasmatic resistance of plants to frost, III, 426.
- Ulyott, P., and Incikaya, K., photo-electric apparatus and photo-electric measurements in limnological research, III, 855.
- Ulmann, M., structure and reactivity of cellulose, I, 20.
- Ulrich, A., nitrate content of grape leaf petioles as an indicator of nitrogen status of the plant, III, 613.
- Ulrich, C. A., and McArthur, F. X., production of antisheep haemolysin, III, 455.
- Ulshafer, P. R. See Marker, R. E.
- Umanski, J. S., and Chidekel, S. S., X-ray investigation of titanium carbide, I, 145.
- X-Ray investigation of complex titanium tungsten carbides, I, 145.
- Umberger, E. J. See Spies, J. R.
- Umbrecht, W. W., and Anderson, T. F., study of *Thiobacillus thiocoxidans* with electron microscope, III, 208.
- See also Fan, C. S., LePage, G. A., and Vogler, K. G.
- Umhoefer, R. R., determination of halogens in organic compounds, II, 286.
- Umphlet, T. L. See Caviness, V. S.
- Umstatter, H., structural mechanics of visco-elastic systems. IV. Piezometry of viscosity, I, 301.
- Underkofer, L. A., Bantz, A. C., and Peterson, W. H., growth requirements of *Acetobacter suboxydans*, III, 602.
- Guymon, J. F., Rayman, M. M., and Fulmer, E. I., semi-micro-method for determination of reducing sugars in fermentation media, III, 448.
- See also Fulmer, E. I., and Lampen, J. O.
- Underwood, A. J. V., catalysts—ancient and modern, I, 20.
- Underwood, H. G., [determination of] quinine ethylcarbonate, II, 148.
- Ungar, G., experimental traumatic shock, III, 720.
- Ungar, J., golden hamster as test animal for tubercular infection, III, 67.
- Unger, L., and Wolf, A. A., treatment of bronchial asthma, III, 872.
- Unger, L. G. See Simons, J. H.
- Ungley, C. C., vitamin-C intakes in a small ship, III, 902.
- and Blackwood, W., peripheral vasoneuro-pathy after chilling, III, 461.
- and Horton, J. S. F., vitamins and sore and bleeding gums, III, 754.
- Ungnade, H. E. See Hoehn, W. M.
- Unna, K., and Clark, J. D., effect of large amounts of single vitamins of B group on rats deficient in other vitamins, III, 41.
- and Richards, G. V., relationship between pantothenic acid requirement and age in the rat, III, 410.
- See also Antopol, W., Kniazuk, M., and Krueger, E.
- Uno, S., and Izumo, T., extraction of vanadium salts. I. Separation of vanadium from ferrous iron, I, 23.
- Unterzaucher, J., micro-analytical determination of oxygen, II, 247.
- Unvala, H. A. See Tawde, N. R.
- Uroponova, T. See Pushin, N. A.
- Upham, S. D. See Lipschitz, W. L.
- Urbach, E., odours (osmols) as allergenic agents, III, 532.
- See also Gottlieb, P. M.
- Urban, F., Milder, B., and Carruthers, C., micro-determination of vitamin-A and carotenes, III, 663.
- See also Carruthers, C.
- Urban, P., scattering of rapid electrons at nuclei, I, 47.
- Urech, P., colorimetric photo-electric determination of fluorine, I, 68.
- Urey, H. C. See Kirschenbaum, I.
- Urquijo, C. A., cutaneous hydrophilis and sensitiveness to tuberculin, III, 850.
- Scott, A. R., and Pagniez, N. F. M., trans-placental transmission of tubercular antibodies, III, 850.
- and Weissmann, M., birth weights and ponderal growth of children of tuberculous mothers, III, 399.
- Urry, W. D. See Pigott, C. S.

- Uskov, F. S. See Lipin, S. V.
 Uspenskaja, T. A., Guldina, E. I., and Zverkova, M. S., determination of sircenium, I, 317.
 See also Tschernichov, J. A.
 Ustenko, G. P., photosynthesis and respiration in sugar beet as influenced by staple element of root nutrition, III, 293. Effect of mineral salts on photosynthesis in relation to amount of assimilates in the leaf, III, 293.
 Utter, M. F., and Werkman, C. H., effect of metal ions on reactions of phosphopyruvate by *Escherichia coli*, III, 280. Occurrence of aldolase and isomerase equilibria in bacterial metabolism, III, 433.
 Uvnas, B., prothrombin and vitamin-K, III, 159.
 Uyeo, S., synthesis of methoxy-methylene-dioxydiphenyls and a new fluorenone cyclisation, II, 261.
- V.
- Vadasz, J., stabilised photo-electric photometer, III, 703.
 Vago, E. E. See Barrow, R. F.
 Vaichulis, J. A., effect of autolysis on differential solubility of principles of posterior lobe of pituitary, III, 808.
 Vail, D., Strong, J. C., and Stephenson, W. F., choriorretinitis associated with positive serologic tests for toxoplasma in older children and adults, III, 471.
 See also Ashbury, M. A.
 Vainschein, E., X-ray spectrographic investigation of bent mica crystals with aid of a Johann spectrograph, I, 74. Study of bent quartz crystals by means of a Cauchois spectrograph, I, 74. Peculiarities of process of plastic deformation in gypsum crystals, I, 84.
 Vainschein, F. M., and Peljakov, M. I., catalytic oxidation of ammonia, I, 21.
 Vaistberg, M., histaminase in treatment of allergy [and potency test], III, 215. Allergic treatment of chronic sinus conditions, III, 215.
 Vakar, F., "farinaceous" scheelite from the sub-Polar Urals, I, 107.
 Vajaitin, T. See Zemplen, G.
 Val Dez, F. C., and Sendroy, J., jws., relationship between gastric acidity and calcium, III, 176.
 Valentine, F. C. O. See Butler, E. C. B., and Thrower, W. R.
 Valjaschko, N. A., and Blizniukov, V., ultra-violet absorption spectra and structure of N-phenylpyrazolone derivatives, IV. Spectra and structure in relation to pharmacodynamic action, II, 105.
 Valkola, A. See Palomas, M. H.
 Vallarta, M. S., terrestrial magnetic field and its influence on cosmic radiation, I, 270.
 Valle, J. R., and Valle, L. A. R., growth of crop-glands of doves after treatment with prolactin, III, 650.
 Valle, L. A. R. See Valle, J. B.
 Valleau, W. D., Johnson, E. M., and Diachan, S., association of tobacco leaf-spot bacteria with roots on crop plants, III, 294.
 Vamos, L., importance of infra-red rays in relation to skin capillaries, III, 680.
 Van Allan, J. A. See Allen, C. F. H.
 Van Alyea, O. E. See Fabricant, N. D.
 Van Artsdalen, E. R., carbon-carbon bond strengths in ethane, propane, and a-butane, I, 1.
 Van Atta, L. C. See Petranskas, A. A.
 Van Bruggen, J. T., Cain, C. K., Doisy, E. A., Gaby, W. L., Homan, D. M., Jones, L. R., Katzman, P. A., Muir, R. D., Reithel, F. J., and Roberts, E. C., penicillin B: preparation, purification, and mode of action, III, 686.
 See also Roberts, E. C.
 Vance, B. M., and Strassmann, G., sudden death following injection of foreign protein, III, 215.
- Vand, F., analysis of nuclear binding energies, I, 141. Theory of irreversible electrical resistance changes of metallic film evaporated in vacuum, I, 147.
 Vandecaveye, S. C. See Fuller, W. H.
 Van Dellen, T. B. See Scupham, G. W.
 Van den Akker, J. A., wave-length calibration of spectrophotometers, I, 287.
 Van Denmark, N. See Krauss, W. E.
 Vanderplank, F. L. See Jackson, C. H. N.
 Van de Stadt, F. B. See Harta, P. H.
 Vandoni, R. See Desmaroux, J.
 Van Duzen, R. E. See Slaughter, D., and Tobolsky, V.
 Van Dyke, A. E., evaluation of Ziehl-Neelsen and fluorescent methods in demonstrating acid-fast bacilli, III, 522.
 Van Dyke, H. B., protein hormones of pituitary, III, 559.
 Van Fleet, D. S., unsaturated fat oxidase: distribution, function, and histochemical identification in plant tissues, III, 597.
 Van Grembergen, G. See under Grembergen, G. rns.
 Van Harreveld, A., innervation of crustacean muscle, III, 96.
 Piesset, M. S., and Wiersma, C. A., relation between physical properties of electric currents and their electroarcotic action, III, 233.
 Van Herick, W. See under Herick, W. van.
 Van Hook, A. and Silver, L., premelting anomalies of long-chain normal paraffin hydrocarbons, I, 34.
 Van Landingham, A. H. See Moore, E. N.
 Van Lanen, J. M., Broquist, H. P., Johnson, M. J., Baldwin, I. L., and Peterson, W. H., synthesis of vitamin-B₁ by yeast, III, 42.
 Van Liere, E. J., and Emerson, George A., influence of antimalarials and related agents on lethal effects of anoxia, III, 419. See also Emerson, George A., and Steckney, J. C.
 Van Loon, E. J. See Clark, B. B.
 Vann, H. M., plantar arterial arch of human foot, III, 541.
 Van Orden, H. O. See Hazlet, S. E.
 Van Ordstrand, H. S., Carmona, M. G., and Hughes, Robert, chemical pneumonia in workers extracting beryllium oxide, III, 514.
 Harris, H. E., and Moore, P. M., jws., bronchothorax, III, 96.
 See also Owen, W. F., jws.
 Van Perris, P. A., Benson, M. E., and Holinger, P. H., laryngeal and systemic histoplasmosis (Darling), III, 735.
 Van Bawenswaag, A. C., and Winn, G. W., jejunal diverticula, III, 893.
 Van Rysselbergh, P., revision of constants of Debye-Hückel theory, I, 256. Limiting equivalent conductance of electrolytes, I, 258.
 and McGee, J. M., conductance of aqueous solutions of magnesium perchlorate, I, 203.
 Vansell, G. H., usefulness of honey-bees in pollination, III, 361.
 Van Slyke, D. D., Hiller, A., and Dillon, R. T., solubilities and compositions of the phospho-12-tungstates of diamino-acids and of proline, glycine, and tryptophan, II, 82.
 See also Emerson, K., jws., and MacFadyen, D. A.
 Van Voorhis, S. N. See McCoy, O. R.
 Van Wageningen, W. P. See Akelastis, A. J.
 Van Wagendonk, W. J., Fuhrman, F. A., Tatum, E. L., and Field, J., jws., nature and action of a salamander toxin, III, 678.
 Van Winkle, W., jws., and Newman, H. W., continued administration of propylene glycol, III, 261.
 See also McClosky, W. T.
 Vanzant, B. T., X-ray therapy of polyps of colon, III, 125.
 and Vanzant, F. R., hereditary deformity chondrodysplasia, III, 368.
 Vanzant, F. R. See Vanzant, B. T.
 Van Zile, B. S., Moul, R. H., and Blank, E. W., apparatus for storage and use of carbonate-free alkalis, I, 266.
- Varingot, J., vitamin-E content of serum during pregnancy, III, 413.
 Varas, L. I. See Pratz, F.
 Varco, R. L. See Code, C. F.
 Varga, J., audiometric investigation of treatment of nerve deafness with vitamin-B₁, III, 555.
 Vargas, L. jws., passage from activity to inactivity of renal glomeruli, III, 600.
 See also Lipschutz, A.
 Varley, N. See Moon, P. E.
 Varma, K. See Damodaran, M.
 Varma, M. See Bhagwati, N. V.
 Varma, P. S., Raman, K. S. V., and Malani, N. H., condensation of o-, m-, and p-thiocresols with o-bromonitrobenzene, 2,5-dichloro- and 2,5-dibromo-nitrobenzene, II, 32.
 Varner, J. E. See MacNevin, F. M.
 Varney, R. F., Kenyon, A. F., and Koeh, F. C., association of short stature, regarded sexual development and high urinary gonadotropin titres in women, III, 32.
 Varov, A. A., and Romm, I. I., occurrence of strontium and barium in oil-field waters of Ural-Volga region, I, 73.
 Vary, E. P., blood transfusion, III, 369.
 Vass, C. C. N. See Prunty, F. T. G.
 Vassel, B., colorimetric micro-method for determination of cystine and cysteine, II, 52.
 Partridge, R. C., and Grossley, M. L., changes in serum-proteins of dogs during type I pneumococcal pneumonia, III, 714.
 Vasserman, E. S., and Bedrinskaya, A. B., obtaining vinyl ethers, II, 79.
 Vasseur, E. See Burnström, J.
 Vassiliev, A. A., and Lapschinskaja, L. I., determination of silicic acid in presence of fluorides, I, 235.
 Vassiliev, S. S., equation of state of gases, III, 19.
 Vastagh, G., and Szegö, F., use of class fluorescent standard in determination of aneurin (vitamin-B₁), II, 404.
 Vaugh, R. H. See Gilliland, J. R.
 Vaughan, E. See Davidson, F. A.
 Vaughan, E. W. See Fowles, R. W.
 Vaughan, J., blood transfusion, III, 369.
 Vaughan, J. M. See McMichael, J.
 Vaughan, J. R., jws., See Tarbell, D. S.
 Vaughan, W. E., and Rust, F. F., photo-addition of hydrogen sulphide to olefinic linkages, II, 80.
 Rust, F. F., and Evans, T. W., photo-addition of hydrogen bromide to olefinic linkages, II, 11.
 See also Rust, F. F.
 Vaughan, W. T., and Graham, W., death from asthma, III.
 Perkins, R. M., and Derbes, F. J., clinical assay of adrenaline and ephedrine, III, 322.
 Vaughan, A. M., and Lees, W. M., fatal pulmonary embolism following sodium morrhuate injection for varicose veins, III, 140.
 Vaughn, J., immediate fatality following use of mercupurin, III, 346.
 Vaughan, B. H., and Levine, Max, differentiation of "intermediate" coli-like bacteria, III, 280.
 See also Mat, E. M.
 Vaux, D. M., chyladenectasis with steatorrhoea, III, 246.
 Vavilov, O. N., transition effects of soft components of cosmic rays in lead, I, 48.
 Vavilov, S. I., theory of concentrational quenching of fluorescence in solutions, I, 53.
 and Feonkov, P. P., concentrational depolarisation of fluorescence in solutions, I, 50.
 Vedder, E. B., components of vitamin-B₁ complex in Cohn liver extract in relation to sprue, III, 500. Deficiencies of polished rice in relation to beriberi, III, 500.
 Veen, P. rns., See Ullrich, H.
 Veiga-Salles, J. B. See Filitti-Warmser, S.
 Veinberg, G. J., liquid absorber for hydrogen, I, 240.

- Velayos, S., effect of elastic compression on susceptibility maximum of nickel; characteristic strains, I, 223.
- Veldstra, H. See Kogel, F.
- Velo de Ipola, R. See Schwartz, R.
- Venable, C. S., and Stuck, W. G., vitalium nails in fractures of hip, III, 221.
- Venitschkin, A. See Shuchovitzki, A.
- Venkatachalam, K. See Ratnagiriswaran, A. N.
- Venkataraman, K. See Bhat, R. V., and Shah, R. C.
- Venketaswarlu, V. See Seshadri, T. R.
- Vennesland, B. See Evans, E. A., jun., and Green, D. E.
- Venning, E. H., Hoffman, M. M., and Browne, J. S. L., isolation of androsterone sulphate, II, 96. Life-maintaining and gluconeogenic properties of cortin-like material excreted postoperatively, III, 736.
- Venzke, W. G., embryological development and physiology of endocrine organs of common fowl (*Gallus domesticus*), III, 782.
- Vepritskaja, V., determination of silicon in quartzites, silica bricks, and sands, I, 24.
- Verbrugge, F., inactivation of trypsin by ultraviolet radiation, III, 843.
- Verdier, E. T., action of gases on photogenic reaction accompanying electrolysis of sodium azide and azoimide, I, 67.
- Veree, T. V. See Cochran, F. D.
- Vereschtschagin, V. V. See Starik, I. E.
- Verghese, T. G. See Guha, P. C.
- Verhoeff, F. H., quantitative test for acuity and reliability of binocular stereopsis, III, 316.
- Vermaas, D., double refraction in oriented gels, I, 61.
See also Kruyt, H. R.
- Vermeulen, C. See Dragstedt, L. R., and Scott, W. W.
- Verny, E. B., and Vogt, M., effects of renal ischaemia on arterial pressure and urine flow in dogs, III, 656.
- Vernidub, M. T., embryonic development of *Salmo fontinalis* and their physiological characteristics, III, 783.
- Vernon, A. A., and Masterson, J. P., solubility effect in solvents of low dielectric constant. II, Solubility effect in benzene, I, 123.
- Vernon, H. K., recovery from heart failure after cardiac massage, III, 718.
- Verzar, F., muscular fatigue and adrenal glands; muscle contraction, III, 551. Deoxycorticosterone as hormone of adrenal cortex, III, 646.
- Vesell, H. See Touroff, A. S. W.
- Veselovski, B. K., vapour pressure of sulphides of antimony, lead, cadmium, and zinc, I, 301.
- Vestal, C. M. See Barrick, E. R.
- Vestling, C. S., and Warner, D. T. isoelectric points of threonine and related compounds, I, 15.
- Vezirischvili, E. K., types of cinnabar crystals from High Ratcha and Abkhasia (Great Caucasus), I, 107.
- Vianna Dias, M. See Ozorio de Almeida, M.
- Vickers, V. S., and Stuart, H. C., anthropometry in pediatrician's office, III, 708.
- Vickery, H. B., Liebig and proteins, I, 104.
- Pucher, G. W., and Deuber, C. G., preparation of asparagine, III, 74.
See also Hubbell, R. B., and Pucher, G. W.
- Victor, J. See Earle, D. P., jun., and Potter, J. S.
- Vidal, F., absence of myelinated tracts connecting hypothalamus and hypophysis in white rat, III, 873.
- and Malbran, J. L., absence of retino-supraoptical connexions in white rat, III, 795.
- Vidoff, B., organotherapy, III, 320.
- Vieira de Campos, H., solution of blood stains during examination of their microcrystalline characteristics, III, 7.
- Viergiver, E. See Woolf, R. B.
- Viets, H. R., Schwab, R. S., and Brazier, M. A. B., effect of pregnancy on myasthenia gravis, III, 233.
- Vignes, H., zinc salts in utero-ovarian troubles, III, 647.
- Vilbrandt, C. F. See Tennent, H. G.
- Vilkomerson, H. See Rhoades, M. M.
- Villamil, M. F cytogenesis of exo- and endocrine pancreas in chick embryo, III, 813.
- Villar, G. E., suggested revision of position of thorium in fourth period of the periodic table, I, 78. Existence of a group of elements in space reserved for actinium in the periodic system, I, 269.
- Villee, C. A., phenogenetic studies of homoeotic mutants of *Drosophila*. I. Effects of temperature on expression of aristapedia, III, 784.
- Villela, G. G., photometric determination of vitamin-B₁, III, 665. Antitoxic principle in liver extracts, III, 745. Antitoxic liver extracts and liver-glutathione in experimental toxicosis, III, 745. [No] carotene in annatto seed (*Bixa orellana*), III, 752. Action of antitoxic liver extracts on hepatic glutathione content in intoxication experiments, III, 815.
- Vilter, R. W. See Moore, C. V.
- Vincent, H., existence of a new, autolabile and hyperlabile toxin secreted by bacillus of typhoid fever, III, 148.
- Vincent, H. B., and Sawyer, R. A., precision in spectrochemical analysis, I, 98.
See also Sawyer, R. A.
- Vincent, R. S., viscosity tonometer; measuring tension in liquids, I, 72.
- and Simmonds, G. H., Berthelot method of measuring tension in liquids, I, 320.
- Vincke, E., inhibition of blood coagulation by rare earths, III, 6.
- Vinini, A. E. See Haydak, M. H.
- Vinograd, J. R. See Dean, R. B.
- Vinogradov, A. P., and Boitschenko, E. A., decomposition of kaolin by diatoms, I, 324.
- Virkar, V. V., transformation of o-nitrobenzoyl-oxyacetooarones into o-hydroxyaroylnitrobenzoylmethanes, and synthesis of nitroflavones, II, 138.
- and Shah, R. C., chromones of naphthalene series; transformation of o-naphthoxyacetooarones into o-hydroxydiaroylmethanes, II, 138.
See also Shah, R. C.
- Virtanen, A. I., Arhimo, A. A., Sundman, J., and Jannes, L., occurrence and significance of oxaloacetic acid in green plants, III, 927.
- Visscher, F. E., and Corley, R. C., influence of linoleic and palmitic acids of diet on synthesis and storage of fatty acids in the white rat, III, 580.
- Visscher, M. B. See Shelley, W. B.
- Vitt, A. E. See Werner, A. A.
- Vivian, D. L. See Carr, C. J.
- Vladimirova, M. E. See Gerling, E. K.
- Vladimirsk, V. V., number of fine structure lines of Rayleigh scattering in optically aerotropic crystals, I, 118.
- Vlasov, N. A. See Bergman, A. G.
- Voblikova, T. V., rate of photosynthesis and respiration of leaf in relation to age, III, 444.
- Voegeli, R. See Goldstein, Henri.
- Voegtlins, W. L., and Lemere, F., treatment of alcohol addiction, III, 345.
See also Lemere, F.
- Voelkner, H., temperature-dependence of resistance of electrical conductors and semiconductors, I, 55.
- Volkens, W. See Krone, W.
- Voet, A., formation of orange II alumina colour lakes, I, 225.
- Vogel, A. I., and Cowan, D. M., physical properties and chemical constitution. VII. Alkyl sulphides, disulphides, sulphites, sulphates, and orthophosphates, I, 117.
- Vogel, P., Rosenthal, N., and Levine, P., haemolytic reactions as result of isoimmunisation following repeated transfusions of homologous blood, III, 454.
- Vogel, R., and Hartung, A., ternary iron-zirconium-sulphur system, I, 182.
- Vogler, K. G., metabolism of autotrophic bacteria. II. Nature of chemosynthetic reaction, III, 144.
- LePage, G. A., and Umbreit, W. W., metabolism of autotrophic bacteria. I. Respiration of *Thiobacillus thio-oxidans* on sulphur, III, 144.
- and Umbreit, W. W., metabolism of autotrophic bacteria. III. Energy storage material active in chemosynthetic process, III, 208.
- Vogt, M. See Verney, E. B.
- Voigt, A., analytical chemistry of rhenium, I, 100.
- Voigt, G. See Zetsche, F.
- Vold, M. J., phase behaviour of lithium palmitate with water and with lithium chloride and water, I, 202.
- Volfenzon, L., holocrine secretion from adrenals, III, 883.
- Volk, V. K., Bunney, W. E., and Tripp, J. T., comparative speed of response of previously immunised and non-immunised children to fluid and alum-precipitated diphtheria toxoid, III, 689.
- Volkenstein, M. V., intensity of Raman lines and nature of chemical bond, I, 50. Polarisability of molecules and intermolecular forces, I, 116.
See also Slovochotova, N. A.
- Volker, J. F. See Ginn, J. T.
- Volkin, E. See Putnam, F. W.
- Volkov, N. N., and Bergman, A. G., constitution diagram of reciprocal system of fluorides and carbonates and of chlorides and carbonates of sodium and potassium, I, 92.
- Volkov, V. N. See Rabinovitsch, A. J.
- Vollmer, E. P., Gordon, A. S., and Charipper, H. A., effects of hormones on erythropoiesis in hypophysectomised rat, III, 391.
- Vollmer, Hermann, microsedimentation for erythrocyte sedimentation test, III, 158. Comparison of synthetic and natural belladonna alkaloid compounds in treatment of Parkinsonism, III, 234.
- Vollmer, Hubert, Adler, C., and Altman, H. S., percutaneous administration of vitamin-K, III, 85.
- Hyslop, H. W., and Lomant, H. V., match test, III, 444.
- and Ripp, M. L., pseudoreaction to tuberculin, III, 850.
- Volman, D. H. See Leighton, P. A.
- Volterra, M., urinary phenols: their significance in normal and pathological conditions, III, 399. Determination of urinary phenols, III, 399.
See also Wasserman, L. R.
- Volz, H. See Haxel, O.
- Vorhaus, M. G., Gompertz, M. L., and Feder, A., clinical experiments with riboflavin, inositol, and calcium pantothenate, III, 753.
- Voris, H. C., evaluation of irradiation in management of brain tumours, III, 493.
- Voris, LeR., Black, A., French, C. E., and Swift, R. W., thiamin, riboflavin, pyridoxine, and pantothenic acid deficiencies as affecting appetite and growth of albino rat, III, 408.
- Bowman, R. S., Kriss, M., and Marcy, L. F., effects of prolonged daily treatment of normal rats with saline anterior pituitary extract. I. Sexual differences in appetite, growth, and organ weights. II. Protein and energy metabolism, III, 559.
- and Moore, H. P., thiamin, riboflavin, pyridoxine, and pantothenate deficiencies as affecting the body composition of albino rats, III, 498.
- and Thacker, E. J., effects of substitution of bicarbonate for chloride in rat diets on growth, energy, and protein metabolism, III, 186.
See also Archer, H. E.
- Vornweg, G., use of cadmium tetraphyridine thiocyanate in gravimetry, I, 263.
- Vorobiev, N. K. See Goltzschmidt, V. A.

- Vorzimer, J. J., Rappaport, E. M., and Langrock, E. G., endocrine factors in toxæmia of pregnancy, III, 173.
- Vos, B. J., jun., use of latent period in assay of ergonovine [ergometrine] on isolated rabbit uterus, III, 677.
See also Smith, R. B., jun.
- Vosburgh, W. C., and McLure, R. S., complex ions. IV. Monoammine silver ion, I, 256.
See also Russell, C. D.
- Vosskühler, H., solubility of tin in magnesium, I, 274.
- Vouk, V. See Weber, K.
- Vowles, R. B., thymonucleic acid from Jensen sarcoma, III, 570.
- Vučković, V., simplification of Lindner's drop method [of isolation from a single cell], III, 205.
- Vuilleumier, C. See Duboux, M.
- Vukulov, P., microchemical determination of magnesium, I, 236.
- W.
- Waagen, H. K., and Pett, L. B., sources of vitamin-C in Alberta, III, 256. Adequacy of vitamin-C in Alberta diets, III, 412.
- Waardenburg, P. J., choroideremia as inherited condition, III, 803.
- Wacek, A. von, and Bezard, A. von, peroxidic degradation of substituted aromatic aldehydes and ketones to the corresponding phenols. II. Degradation with peracetic acid, II, 362.
- Bezard, A. von, and Eppinger, H. O., degradation of coumarones and thionaphthens by ozone, II, 276.
- and Eppinger, H. O., peroxide degradation of substituted aromatic aldehydes and ketones to the corresponding phenol, II, 260.
- Wachholder, K., and Okrent, A., occurrence of bound ascorbic acid, III, 754.
- Wachholz, F., and Asbeck, W. K., determination of viscosity for high shearing stresses and definite shearing velocities. I, I, 288.
- and Franceson, A., dielectric measurements on pigment-linseed oil suspensions; determination and computation of the dielectric constant of mixed systems, I, 305.
- Wachtel, J. L., and Cassidy, H. G., chromatography as a means of separating amino-acids, II, 248.
- Waddell, W. W., jun. See Woodward, F. D.
- Waddington, C. H., translocations of organism in gastrula of *Discoglossus*, III, 2. Determination in *Drosophila* development, III, 543. Morphogenetic forces in newt embryos, III, 543. Development of "leg genes" in *Drosophila*, III, 859.
- and Pilkington, R. W., structure and development of four mutant eyes in *Drosophila*, III, 859.
- Wadleigh, C. H. See Gauch, H. G.
- Waelsch, H., and Miller, H. K., relation of keto-acid excretion to amino-acid metabolism, III, 45.
- and Rackow, H., natural and synthetic inhibitors of choline-esterase [effect of products of adrenaline oxidation], III, 597. See also Anchel, M.
- Waerden, B. L. van der, long range of regular atomic spacing in mixed crystals, I, 117.
- Wagener, H. P., angioid streaks of fundus oculi, III, 554.
- and Love, J. G., fields of vision in cases of tumour of Rathke's pouch, III, 879.
- Wager, A. T., intensity anomalies and perturbations in CN bands, I, 295.
- Wager, L. R., and Mitchell, R. L., distribution of trace elements in rocks of the Skaergaard intrusion, Greenland, I, 211.
- Wagman, J. H., and Gullberg, J. E., relationship between monochromatic light and pupil diameter; low-intensity visibility curve as measured by pupillary measurements, III, 236.
- Wagner, A., and Miller, J. R., cholesterol in lung and serum of normal pneumonic rats, III, 464.
- Wagner, E. C. See Meyer, J. F., and Peel, E. W.
- Wagner, Hans, and Bohmisch, A. W., formation of films from emulsions. II, I, 125.
- Wagner, Helmut. See Hückel, W.
- Wagner, J., Raman effect. CXIV. Free rotation. VII. Methylated methane derivatives with a branched chain, I, 144.
See also Ballaus, O., and Kohlrausch, K. W. F.
- Wagner, J. R., and Elvehjem, C. A., nutritive value of keratins. I. Powdered swine hoofs, III, 495.
- Wagner, K. H. See Scheunert, A.
- Wagner, L. E., Hoffman, J. C., and Brown, H. D., correlation between the vitamin-C content and refractive indices of musk melons, III, 700.
- Wagner, O., epidemiology and diagnosis of trichinosis, III, 71.
- Wagner, R. B. See Marker, R. E.
- Wagner-Jauregg, T., experimental chemotherapy of leprosy, III, 51.
- Arnold, H., and Hippchen, H., higher alkyl thiocyanates, II, 321.
- and Helmert, E., reactions and derivatives of 2-aminobenzothiazole, II, 110.
- and Lennartz, T., thiocholesterol, II, 304.
- Wagner-Roemmich, M. See Borsche, W.
- Wagreich, H., Halpert, W., and Hirschman, A., influence of amino-acids on reactivation of yeast-invertase, III, 598.
- Wagtendonk, W. J. van, and Wulzen, R., dietary factor, essential for guinea-pigs. I. Isolation from raw cream, III, 756.
- Wahl, B. See Schütze, H.
- Wahl, H. R., and Robinson, D., neuroblastoma of mediastinum with phaeochromoblastomatous elements, III, 572.
- Wahlin, H. B. See Burris, R. H.
- Wahlstrom, E. E., use of ammonium hypophosphate in determinative mineralogy, I, 27.
- Wainio, W. W., thiamin requirement of albino rats as influenced by substitution of protein for carbohydrate in the diet, III, 408.
- Wainman, P., Reese, J. D., and Koneff, A. A., effect of testosterone propionate on hypophysis of normal young adult male rat, III, 24.
- Wainwright, C., microscope and back-reflexion X-ray camera, I, 25.
- Waistrot, S. W. See Wolfrom, M. L.
- Waisman, H. A., Elvehjem, C. A., Henderson, L. M., and McIntyre, J. M., effect of enzymic digestion on pantothenic acid content of meats determined by microbiological method, III, 190.
- Elvehjem, C. A., and Mills, R. C., chicks maintained on a heated diet, III, 407.
- See also Cooperman, J. M., Henderson, L. M., and Orsini, D.
- Wakefield, E. G. See Miller, J. M.
- Wakeley, C. P. G., and Mulvaney, J. H., intrathoracic goitre, III, 169.
- Wakerlin, G. E., normotension and hypertension in dog, III, 869.
- Johnson, C. A., Moss, W. G., Smith, E. L., and Weir, J. R., prophylactic treatment of experimental renal hypertension with renin, III, 720.
- Moss, W. G., and Smith, E. L., treatment of experimental renal hypertension with vitamin-A, III, 93.
- Wakim, K. G., Root, G. T., and Essex, H. E., effect of angiotonin and renin on glomerular circulation in frog kidney, III, 550.
- Waksman, S. A., antagonistic relations of micro-organisms, III, 431.
- Horning, E. S., and Spencer, E. L., production of two antibacterial substances, fumigacin and clavacin, III, 275. Antagonistic fungi, *Aspergillus fumigatus* and *A. clavatus*, and their antibiotic substances, III, 770.
- Horning, E. S., Welsch, M., and Woodruff, H. B., distribution of antagonistic actinomycetes in nature, III, 521.
- Waksman, S. A., and Schatz, A., strain-specificity and production of antibiotic substances, III, 600.
- and Woodruff, H. B., selective antibiotic action of various substances of microbial origin, III, 204. *Actinomyces antibioticus*, a new soil organism antagonistic to pathogenic and non-pathogenic bacteria, III, 275. See also Foster, J. W., Metzer, H. J., and Starkey, R. L.
- Wald, G., visual system and vitamins-A of sea lamprey, III, 18.
- Brouha, L., and Johnson, R. E., experimental human vitamin-A deficiency and ability to perform muscular exercise, III, 752.
- Harper, P. V., jun., Goodman, H. C., and Krieger, H. P., respiratory effects on visual threshold, III, 18.
- Waldbauer, L., and Ward, N. M., determination of cobalt and manganese by photometric methods, I, 70.
- Waldi, D. See Wittig, G.
- Waldman, J., white rings in cornea (coats), III, 311.
- Waldman, S., rapid, repeated, approximate determinations of transverse diameter of the heart, III, 229.
- Waldschmidt-Leitz, E., and Hatschek, R., occurrence of sterically selective enzymes in the carcinomatous organism, III, 769.
- and Mayer, K., steric selection by peptidases in normal and carcinomatous sera, III, 682.
- Walker, A. E., Woolf, J. J., Halstead, W. C., and Case, T. J., temporal fusion effect of photic stimulation on electrical activity of visual structures, III, 641.
- See also Halstead, W. C.
- Walker, B. S. See Fitz, R., and Moss, R. E.
- Walker, F., pyroxenes of basaltic magma, I, 323.
- Walker, G. A. See Neff, F. C.
- Walker, H. A. See Russell, W. C.
- Walker, Jacqueline. See Duncan, J. T.
- Walker, John. See Hodgson, H. H.
- Walker, J. C. See Lolivette, J. P., and Schroeder, W. T.
- Walker, J. P. S., test type, III, 105.
- Walker, J. T., examination and preservation of non-medical scientific evidence acquired incident to conduct of a medico-legal post-mortem examination, III, 657.
- Walker, J. W. See Noller, C. R.
- Walker, N. See Burton, H.
- Walker, P. A., physical properties of allantoic and amniotic fluids of chick. I. Specific conductance. II. pH, III, 740.
- Walker, R. See Freedman, W. B.
- Walker, R. D. See Sheppard, S. E.
- Walker, T. C., testosterone propionate and oestrogens in treatment of essential hypertension, angina pectoris, and peripheral vascular disease, III, 92.
- Walker, T. K., and Tošić, J., "catalase test," with reference to *Acetobacter* species, III, 432.
- Walker, W. J., temperature, pressure, and specific volume changes of a gas under dissociation and re-association conditions, I, 309.
- Walkley, A., determination of zinc in plant materials, III, 220.
- Walkling, A. A. See Cantarow, A.
- Wall, F. T., statistical lengths of rubber-like hydrocarbon molecules, I, 118.
- See also Leaf, B.
- Wall, H. C., renal concentration test using solution of posterior pituitary, III, 567.
- Wall, M. E., and Kelley, E. G., determination of carotene in plant tissues; chromatographic method, III, 446.
- Wall, N. M. See Rosenburg, S.
- Wall, R. F., and Hartmann, E. L., sand culture studies of effect of concentrations of added salts on composition of tomato plants, III, 698.
- Wallace, E. W., Wallace, H. M., and Mills, C. A., effect of climatic environment on genesis of subcutaneous tumours induced by methylcholanthrene and on growth of a transplantable sarcoma in *C3H* mice, III, 181.

- Wallace, H. M. See Wallace, E. W.
 Wallace, J. See Sharpey-Schafer, E. P.
 Wallace, J. H., jun. See Lee, S. W.
 Wallace, W. E., Offutt, W. F., and Robinson, A. L., heats of dilution of aqueous solutions of glycine at 25°, I, 202.
 See also Kahler, J. E., and Nathan, C. C.
 Wallace, W. M. See Davis, H.
 Wallace, W. P., and Henze, H. R., keto-ethers. X. α -Methoxyethyl alkyl ketones, II, 120.
 Wallbaum, H. J. See Laves, F.
 Wallenfels, K. See Kuhn, R.
 Waller, E. F., isolation of filterable virus from chickens affected with "blue comb," III, 528.
 Waller, H. K., reflex governing outflow of breast milk, III, 741.
 Waller, J. V., Kaufman, M. R., and Deutsch, F., anorexia nervosa: psychosomatic entity, III, 528.
 Waller, R. C., absorption spectra of solids, I, 175.
 Wallersteiner, W. K. S., counteracting sulphonamide inhibitors, III, 775.
 Wallick, H., and Stuart, C. A., antigenic relationships of *Escherichia (Bact.) coli* isolated from one individual, III, 602.
 Wallingford, V. H. See Phillips, J. H.
 Wallis, E. S. See Brink, N. G., and Lane, J. F.
 Wallis, G. C., vitamin-A and -D potency of lucerne hay, III, 498. Vitamin-C in dairy cattle nutrition, III, 501.
 Walls, E. W., specialised conducting tissue in heart of hedgehog (*Erinaceus europaeus*), III, 781.
 Walls, G. L., vertebrate eye, III, 364.
 Walls, L. P., volatile products from apples, III, 74.
 Walsh, A. See Smith, D. M.
 Walsh, E. O'F., 1-p-aminobenzenesulphonamido-2:5-dimethylpyrrole, II, 45.
 Walsh, R. P., sulphamethazine in pneumococcal meningitis, III, 906.
 Walt, E. D. van der. See Loutit, J. F.
 Walter, C. W. See Schulz, R. Z., and Warren, J. V.
 Walter, E. See Lock, G.
 Walter, E. D. See Swift, L. J.
 Walter, H. See Holtz, P.
 Walter, L. A., ethyl p-aminobenzenesulphonate, II, 226.
 See also Hunt, W. H.
 Walter, R. I. See Geist, S. H.
 Walter, W. G., electroencephalography in cases of mental disorder, III, 727.
 and Hucker, G. J., β -haemolytic streptococci isolated from public room floors, III, 438.
 See also Hemphill, R. E.
 Walters, G. C., and De Vries, T., cerium amalgam electrode and the thermodynamics of aqueous cerous sulphate, I, 153.
 Walters, P. M. See McElvain, S. M.
 Walters, W., control of haemorrhagic tendencies, III, 160. Surgical treatment of chronic gastric ulcer, III, 328.
 See also Friedell, M. T., and Moersch, H. J.
 Walthard, B., coronary arteriosclerosis in juveniles, III, 868.
 Walther, W. See Criegee, R.
 Walti, R. See Treadwell, W. D.
 Waltman, C. S. See Emmert, E. M.
 Walton, H. F., equilibria in carbonaceous cation exchanger, I, 275.
 Walton, J. H., lecture demonstrations, I, 168.
 See also Bente, P. F., and Peterson, R. W.
 Walton, R. P., Cook, F. M. and Cullen, A. B., roller rim-drive kymographs, III, 780.
 Walvekar, S. P., Phalnikar, N. L., and Bhide, B. V., vapour pressures of halogen acids, I, 201. Action of halogen acids on alcohols in presence of benzene, II, 149. Fission of ethers. I. Fission of aromatic ethers in non-aqueous solvents, II, 324.
 Walzer, M., absorption of allergens, III, 289.
 Wammock, H. See Teahan, R. W.
- Wanag, G., derivatives in indane group as reagents for amines. IV. Methylbindone, II, 51.
 and Bungs, J., structure of 2-nitroindane-1:3-dione, II, 95.
 Wang, C. F., vitamin-C requirements for Chinese adults, III, 666.
 Wang, S. C., localisation of salivatory centre in medulla of cat, III, 795.
 Wang, S. H., smear method for counting microscopic particles in fluid suspension, III, 447.
 Wang, S. N., and Winkler, C. A., thermal decomposition of vinyl ethyl ether, I, 280.
 Wang, Y. L., dipole moments and intermolecular association of polyhydric alcohols, I, 176.
 Wangensteen, O. H., controlled administration of fluid [to surgical patients], III, 458.
 and Dennis, C., production of experimental acute appendicitis (with rupture) in higher apes by luminal obstruction, III, 178.
 See also Dennis, C.
 Wangerin, D. M. See Albanese, A. A., and Holt, L. E., jun.
 Ward, A. A., and Kennard, M. A., effect of cholinergic drugs on recovery of function following lesions of central nervous system in monkeys, III, 466.
 Ward, A. G., determination of half-value periods from observations with a single Geiger counter, I, 210.
 Ward, E. N. See Potter, J. S.
 Ward, G. E. See Lockwood, L. B.
 Ward, G. J. See Collins, E. N.
 Ward, J. C., and Crabtree, D. G., strychnine. X. Comparative accuracies of stomach-tube and intraperitoneal-injection methods of bioassay, III, 198.
 Ward, N. M. See Waldbauer, L.
 Ward, N. W., rate of respiration in potato tubers at high temperatures in relation to treatment with ethylene chlorhydrin, III, 779.
 Ward, Robert, Sabin, A. B., Najjar, V. A., and Holt, L. E., jun., thiamin excretion tests in children with paralytic poliomyelitis, III, 752.
 Ward, Robertson, prognosis of malignant goitre in relation to pathological type, III, 333.
 Ward, Roland. See Gibson, G.
 Ward, S. M. See Hoagland, C. L.
 Ward, T. G. See Starbuck, E. B.
 Ward, W. E., protective action of vi bacteriophage in *Eberthella typhi* infections in mice, III, 776.
 Wardley, J. R. See Gordon, C. M.
 Waring, C. E., and Robison, G., precision high-temperature control utilising the Hull circuit, I, 238.
 Steingiser, S., and Hyman, H. H., magneto-optic rotation. IV. Acetic and chloroacetic acids in polar and non-polar solvents. V. Selenium oxychloride in aqueous solutions, I, 249.
 Waring, H., effect of hormones on degeneration of X-zone in mouse adrenal, III, 23.
 and Landgrebe, F. W., time relations of colour response, III, 737.
 Landgrebe, F. W., and Bruce, J. R., pituitary, thyroid, and colour response in dogfish, III, 561.
 Landgrebe, F. W., and Neill, R. M., ovulation and oviposition in anura, III, 562.
 See also Landgrebe, F. W.
 Waring, W. S., and Werkman, C. H., iron requirements of heterotrophic bacteria, III, 772.
 Warkany, J., and Nelson, R. C., congenital malformations induced in rats by maternal nutritional deficiency, III, 191.
 Warne, L. G. G., preservation of plant material, III, 151.
 Warneke, (Miss) F. E. See Crawford, (Miss) H. M.
 Warner, C. G. See Bedford, T.
 Warner, D. T. See Rose, W. C., and Vestling, C. S.
 Warner, E. D. See Seegers, W. H.
- Warner, F. J., development of diencephalon of *Natrix sipedon*, III, 154.
 Warner, R. C. See McMeekin, T. L.
 Warnock, G. M. See Duckworth, J.
 Warr, O. S. See Dulaney, A. D.
 Warren, B. E., basic principles involved in the glassy state, I, 177. X-Ray study of chrysotile asbestos, I, 268.
 Warren, F. L., aerobic oxidation of aromatic hydrocarbons in presence of ascorbic acid; reaction with anthracene and 3:4-benzopyrene, II, 331.
 See also Burrows, H.
 Warren, J., biological characteristics of organisms of pleuropneumonia group, III, 64.
 and Sabin, A. B., complement-fixation reaction in toxoplasmic infection, III, 360. Therapeutic effectiveness of sulphonamides on infection by an intracellular protozoan (toxoplasma), III, 360. Effect of anti-protozoal drugs on toxoplasma *in vitro* and *in vivo*, III, 360. Biological and immunological properties of pleuropneumonia-like organism of human origin III, 360.
 Warren, J. V., Romano, J., Stead, E. A., jun., and Walter, C. W., blood flow in hand and forearm after paravertebral block of the sympathetic ganglia; evidence against sympathetic vasodilator nerves in extremities of man, III, 377.
 and Stead, E. A., jun., effect of accumulation of blood in extremities on venous pressure of normal subjects, III, 461.
 See also Ebert, R. V., Schales, O., Stead, E. A., jun., and Weiss, S.
 Warren, L. E., [determination of] barbituric acid derivatives, II, 148. [Determination of] barbituric acid derivatives, particularly bromobarbiturates and thiobarbiturates, II, 212.
 Warren, M. K. See Furlong, J. J.
 Warren, S., blood findings in cyclotron workers, III, 7. Effects of radiation on cardiovascular and urinary systems, III, 348. Effects of radiation on gonads, III, 348. Relation of chronic mastitis to carcinoma of breast, III, 492. Effects of radiation on organs of special sense endocrine glands, skin, striated muscle, germ plasm, and embryo, III, 914.
 and Olshausen, K. W., interstitial cell growths of testicle, III, 572.
 and Scott, O. K., *Physarum* as radiation test object, III, 837.
 and Warvi, W. N., tumours of sebaceous glands, III, 660.
 See also Dunlap, C. E., Gates, O., and Lombard, H. L.
 Warren, S. L. See Plati, J. T.
 Warren, W. See Fogg, L. C.
 Warrick, E., and Fugassi, P., modified stock valve [with one sintered-glass disc], I, 167.
 Warrick, F. B. See Gutman, A. B.
 Warshaw, R. See Goldberg, A.
 Wartenberg, H. von, chromium tetrachloride, I, 136. Determination of densities of reactive gases, I, 320.
 Warvi, W. N., and Orr, T. G., internal supravesical hernias, III, 449.
 See also Gates, O., and Warren, S.
 Warwick, E., nomograph for estimation of activation energies of unimolecular reactions, I, 267.
 Wash, G. See Quebedeaux, W. A.
 Washburn, R. G. See Krauss, W. E.
 Washburn, S. L., sequence of epiphyseal union in old world monkeys, III, 705.
 Wasley, W. L., and Rusch, H. P., inhibition of autoxidation of aldehydes by carcinogenic chemicals and related compounds, III, 38.
 See also Kline, B. E.
 Wasserman, D., and Dawson, C. R., synthesis of *cis*- and *trans*-3- Δ^6 -pentadecenylveratrol, a dihydroderivative of urushiol dimethyl ether, II, 187.

- Wasserman, L. R., Volterra, M., and Rosenthal, N., quantitative urobilinogen excretion following transfusions of stored and fresh blood, III, 5.
- Wasserman, P., and Mirsky, I. A., immunological identity of insulin from various species, III, 24.
See also Mirsky, I. A.
- Wassermann, A., solvent effects in association equilibria, I, 15. Additions to double bonds. XIV. Nature of activated complex in bimolecular diene syntheses, I, 19. Homogeneous catalysis of diene synthesis; third-order reaction, I, 21. Homogeneous catalysis and solvent effects in a diene synthesis, I, 21.
- Wassmuth, H. See Kahovec, L.
- Wasson, V. P., and Brown, E. E., immunisation against rheumatic fever, III, 775.
See also Brown, E. E.
- Wataghin, G., thermal equilibrium between elementary particles, I, 174.
- Watanabe, A., photochemical activation of oxidation by complex metallic salts, I, 22.
- Watase, Y. See Kikuchi, S.
- Waterman, A. J. normal development of New Zealand white strain of rabbit: oogenesis and external morphology of embryo, III, 706.
- Waters, M. H., arteriovenous aneurysm of neck, III, 868.
- Waters, R. M. See Schmidt, E. R.
- Waters, W. A., chemical interpretation of oxidation by dehydrogenase enzymes, III, 596.
- Watkins, A. L., electromyograms in tetanus, III, 233.
- Watkins, E. See Breese, B. B.
- Watkins, J. V., leaf bud cuttings for multiplying tropical shrubs, III, 698.
- Watkins, R. W. See Coghill, G. E.
- Watson, B. A., clinical experience with oral ethinyloestradiol, III, 116. Prevention of diabetes mellitus, III, 193.
- Yolton, N., and Rauls, L., sex-hormone assays in menopause, III, 649.
- Watson, B. P. See Herrick, W. W.
- Watson, C. J., and Paine, J. R., [red cells in] splenic venous blood, III, 453.
See also Flink, E. B., and Grinstein, M.
- Watson, D. W., cultivation of West Nile virus in developing chick embryo, III, 851.
- and Smadel, J. E., susceptibility of hamsters to peripheral inoculation of Western, Eastern, and West Nile encephalitis viruses, III, 851.
- See also Havens, W. P.
- Watson, E. M., non-hypoglycaemic (allergic) insulin reactions, III, 611.
- Watson, G. M. See Felsing, W. A.
- Watson, H. See Burdick, H. O.
- Watson, J. M. ripening of Ehrlich's haematoxylin, III, 785.
- Watson, K. M., thermodynamics of the liquid state; generalised prediction of properties, I, 178.
See also Hougen, O. A.
- Watson, K. de P., mafic and ultramafic rocks of Baie Verte area, Newfoundland, I, 268.
- Watson, L., red-cell suspension transfusions, III, 712.
- Watson, M., stilboestrol in pyometra in bitch, III, 172.
- Watson, Margaret. See Steinfield, E.
- Watson, R. C. See Fankhauser, G.
- Watson, R. W., elongation in palisade cells, III, 216.
- Watson, W. L., blood and lymph vessel tumours, III, 660.
and Pool, J. L., cancer of thyroid, III, 251.
- Watson, W. W., and Woernley, D., thermal diffusion with ammonia, I, 197.
- Watt, G. W. See Holt, R. B., Knowles, C. M., Moore, T. E., and Williamson, P. M.
- Watt, J. See Hardy, A. V.
- Watt, J. Y. C., active immunisation of rats against *Nippostrongylus muris*, III, 852.
- Wattenberg, A., and Webb, H. W., continuum in the 1849 Å region in afterglow spectrum of mercury, I, 293.
- Wattenwyl, H. von, Aschheim-Zondek and other pregnancy tests, III, 563. Effect of X-rays on rat's testis, III, 651.
See also Wenner, R.
- Watters, G. G. See Brewster, C. M.
- Watters, J. I. See Kolhoff, I. M.
- Watts, E. C., pH of solutions of sodium citrate used for preservation of fluid blood, III, 159.
- Watts, J. W. See Freeman, W.
- Watts, P. S. See Stableforth, A. W.
- Watts, W. E. See Ebert, R. V.
- Waud, R. A., and Ramsay, A., diffusion of sulphonamides out of bases, III, 416.
See also Skinner, H. G.
- Waugh, D. F., investigating thickness, chemical properties, and surface structure of thin biological objects, III, 296.
- Waugh, J. G., and Cullinan, F. P., nitrogen, phosphorus, and potassium contents of peach leaves as influenced by soil treatment, III, 534.
See also Scott, D. H.
- Waugh, J. M. See Allen, E. V.
- Waugh, R. C., Ekeley, J. B., and Ronzio, A. R., glyoxalines. II. Interaction of benzamidine with phenylglyoxal, II, 72.
- Wawra, C. Z., and Webb, J. L., isolation of oxidation-reduction enzyme from lemon peel (vitamin-P), III, 350.
- Wawzonek, S., synthesis of 2:6-diphenyl-cyclooctane-1:5-dione, II, 266.
and Laitinen, H., reduction of unsaturated hydrocarbons at the dropping mercury electrode. II. Aromatic polynuclear hydrocarbons, I, 64.
See also Koelsch, C. F.
- Wax, W. V., delayed photosensitisation of skin due to sulphaniamide, III, 136.
- Way, C., vitamin requirements of thoroughbreds in training, III, 752.
- Way, Y. M. See Haworth, R. D.
- Wayburn, E., infra-red photography of abdominal wall, III, 222.
and Beckh, W., insulin resistance in diabetes mellitus, III, 111.
and Gray, H., two-dose glucose-tolerance test, III, 414.
- Waymouth, C. See Davidson, J. N.
- Weakley, C. E. See Moore, E. N.
- Wearn, J. T., morphological and functional alterations of coronary circulation, III, 868.
See also Gregg, D. E., and Shipley, R. E.
- Weatherby, E. J. See Peece, R. P.
- Weatherby, J. H., membrane semipermeability, III, 517.
- Weatherby, L. S., and Cheng, A. L. S., determination of flavones or quercetin-like substances in natural products, III, 779.
- Weatherhead, A. P. See Kermack, W. O.
- Weatherill, P. F., valency angle of the carbon atom, I, 82.
- Weatherwax, J. See Teahan, R. W.
- Weaver, H. M., and Nelson, W. O., changes in birefringent material in adrenal cortex of rat following administration of adrenotropic hormone, III, 299.
- Weaver, R. H. See McFadden, D. B.
- Webb, D. A., micro-determination of sulphates in sea-water, I, 137. Vanadium and ascidian blood, III, 161.
- Webb, E. L., and Sellers, T. F., four years' use of the Kahn presumptive test as screening agency in serology of syphilis, III, 693.
- Webb, F. J., metallation of sulphur-containing organic compounds, II, 284.
- Webb, G. B. See Benedict, M.
- Webb, H. W. See Wattenberg, A.
- Webb, J. L. See Wawra, C. Z.
- Webb, K. R., John Roebuck, I, 73. Carl Wilhelm Scheele (1742–1786), I, 168.
- Webber, J. E. See Hill, A. M.
- Webber, W. C. See Balfe, M. P.
- Webber, A., alterations in pericellular synapses in human brain in neighbourhood of brain tumour, III, 14.
- Weber, C. See Lodat, F. C.
- Weber, C. J., Lalich, J. J., and Major, R. H., reduction of 2-(*p*-nitrobenzenesulphonamido)-pyridine to sulphapyridine in animal body, III, 673.
- Weber, H. H. See Schramm, G.
- Weber, H. M., angiography, III, 630.
- Weber, H. W., Kurzrok, L., and Birnberg, C. H., effect of inunction of α -oestradiol and oral medication with pregnenolone on postmenopausal human uterus, III, 115.
- Weber, K., and Pichler, M., restriction of catalysed oxidation of iodine ion by chlorate. III. Osmium tetroxide and ferric chloride as catalyst, I, 231.
- Reizek, A., and Vouk, V., luminescence of luminol. II. Action of complex ferric compounds on chemiluminescence of luminol, I, 115.
- Weber, M. See Kraut, H.
- Weber, O. H., and Husemann, E., connexion between carboxyl content and degree of polymerisation of celluloses and ripening of viscose and its bleaching by chlorine, II, 58. Determination of mol. wt. of cellulose by an end-group method, II, 58.
See also Husemann, E.
- Weber, R. See Klement, R., and Schwarzenbach, G.
- Weber, W. See Busch, M.
- Webster, A. See Fitzgerald, J. E.
- Webster, B. See McDermott, W.
- Webster, D. R. See Babkin, B. P., and Notkin, L. J.
- Webster, G. L. See Martinek, R. G.
- Webster, J. E., and Cross, F. B., chemical and physiological studies on uneven ripening of Concord grapes in Oklahoma, III, 361.
- Webster, M. F. H. See Beckett, E. G.
- Webster, T. A. See Rosenheim, O.
- Wechsler, I. S., and Bender, M. B., neurological manifestations of periarteritis nodosa, III, 549.
- Gernsheim, G., and Sobotka, H., tocopherol level in serum of normal subjects and patients with amyotrophic lateral sclerosis, III, 552.
See also Bender, M. B.
- Wedberg, S. E., effect of exercise on production of typhoid agglutins, III, 607.
- Wedell, G., axonal regeneration in cutaneous nerve plexuses, III, 97.
- Feinstein, B., and Pattle, R. E., electromyography, III, 722.
- Weddle, C. L. See Post, K.
- Weech, A. A. See Benjamin, H. R.
- Weed, J. C. See Collins, C. G.
- Weed, L. A., and Minton, S., jun., nonspecificity of serum-opacity test for *Clostridium welchii*, III, 920.
- Weekers, L., and Weekers, R., effect of glaucoma operations, especially of diathermy treatment of the ciliary body, III, 18.
- Weekers, R. See Weekers, L.
- Weeks, J. R., and Holck, H. G. O., biological assay of extract of *Convallaria majalis* leaves using pigeons, III, 586. Potency of extract of *Convallaria majalis* leaves; assays by papillary muscle and cat methods, III, 762.
See also Holck, H. G. O.
- Weeks, M. E., and Todd, J. R., determining magnesium in plants and soils; adaptation of 8-hydroxyquinolinolate micro-method, III, 704.
- Wegelin, C., antagonism between thyroxine and vitamin-A [and liver-glycogen], III, 247. Occurrence, pathological anatomy, and aetiology of bronchial and pulmonary carcinoma, III, 820.
See also Glanzmann, E.
- Weger, P. See Fleisch, A.
- Wegner, H. See Kroner, W.
- Wegner, M. I., Bohstedt, G., Booth, A. N., and Hart, E. B., utilisation of urea by ruminants as influenced by level of protein in ration, III, 186.
- Booth, A. N., Elvehjem, C. A., and Hart, E. B., rumen synthesis of vitamin-B complex on natural rations, III, 575.

- Wegner, M. I., Fraps, G. S., and Kemmerer, A. R., effect of preparation of sample on microbiological assay for riboflavin, III, 334.
- Wégria, R. See Green, H. D.
- Wehrle, W. See Mohr, J. L.
- Wehrli, S., chemical detection of hydrocyanic acid in corpse, III, 515.
- Weibke, F., thermochemistry of alloys, I, 228.
- and Schrag, G., electrochemical investigation of system gold-antimony, I, 274. Heats of formation of lower phosphides of heavy metals, I, 279.
- Weichert, C. K., selection of nipples by suckling rats and its effect on mammary system, III, 33.
- Weizsel, M., Katona, N., and Liu, F., pertussis antitoxin, III, 64.
- Weichselbaum, T. E. See Somogyi, M.
- Weidlich, H. A., and Meyer-Delius, M., preparation of methoxyphenylacetic acids, II, 229.
- Methoxyphenylacetic acids, II, 300.
- Weigert, F., and Mottram, J. C., intermediate stages in metabolic conversion of benzopyrene into 8-hydroxybenzopyrene in mice, III, 905.
- See also Doniach, I., and Mottram, J. C.
- Weigle, J., thermal radiation in crystals and X-ray diffraction, I, 7.
- See also Bleuler, K.
- Weilhe, H. D., and Phillips, M., hemicelluloses of maize stalks, III, 295.
- Weijlard, J., cocarboxylase and related esters, II, 111.
- Weikert, H. See Clotofski, E.
- Weil, A., and Etherington, A. W., experimental tumour of pituitary of white rat, III, 559.
- Weil, A. J., Wassermann antigen and related "alcohol-soluble" antigens, III, 213.
- Assay of immunising effect of scarlet fever toxin in rabbit, III, 526.
- and Gall, L. S., chemotherapeutic testing with sodium sulphathiazole in the developing chick embryo, III, 430.
- Weil, G. L., β -ray spectra of arsenic, rubidium, and krypton, I, 3.
- Weil-Malherbe, H., experimental study of chromatography, I, 266.
- See also Dickens, F.
- Weilerstein, R. W. See Klumpp, T. G.
- Weill, A. R. See Lipson, H.
- Weimer, (Miss) K. E., Pool, M. L., and Kurbatov, J. D., radioactive isotopes of lanthanum, I, 174.
- Weimer, M. See Necheles, H.
- Weinaug, C. F., and Katz, D. L., surface tensions of methane-propane mixtures, I, 124.
- Weinberg, H. B. See Sokolow, M.
- Weinberg, T. See Feldman, M.
- Weinberger, L. M., and Grant, F. R. L., intramedullary tractotomy. III. Studies on sensation, III, 237.
- Weineck, E., concentration of lapine-virus by means of foaming, III, 441.
- Weiner, R., and Halla, F., is there a film theory of passivity ?, I, 37.
- Weiner, S., high polymerides and new rules, II, 151.
- Weiner, S. B. See Schick, B., and Schwarz, H.
- Weingarten, M. See Rafsky, H. A.
- Weingarten, R. J., tropical eosinophilia, III, 713.
- Weinglass, A. R. See Saphir, W.
- Weinhouse, S., blood-cholesterol, III, 459.
- Weinrich, W. See Ottenweller, J. H.
- Weinstein, E., determination of valency from X-ray absorption spectra, I, 78.
- Weinstein, E. A. See Bender, M. B.
- Weinstein, L. See Rammekamp, C. H.
- Weinstein, W. See Ogston, A. G.
- Weintraub, R. See Burman, B.
- Weintraub, R. L., and McAlister, E. D., developmental physiology of the grass seedlings. I. Inhibition of mesocotyl of *Avena sativa* by continuous exposure to light of low intensity, III, 926.
- Weir, E. G., influence of serum-bromide concentration on distribution of bromide ion between serum and spinal fluid, III, 269.
- Weir, H. F. See Poncher, H. G.
- Weir, J. F. See Moersch, H. J.
- Weir, J. R. See Wakerlin, G. E.
- Weisberg, M. See Kamman, G. R.
- Weiser, H. B., and Milligan, W. O., mutual coagulation process, III, I, 307.
- Milligan, W. O., and Simpson, W. C., elimination of sorption-desorption hysteresis in hydrous oxide gels. II. Tantalum pentoxide, stannic oxide, and titanium dioxide, I, 124.
- and Roy, M. F., formation of Kohlschütter's silver sol, II, I, 276.
- Weiser, R. S., Golub, O. J., and Hamre, D. M., anaphylaxis in the mouse, III, 361.
- Weisman, A. I., Snyder, A. F., and Coates, C. W., physiology of egg extrusion in *Xenopus* frog test for pregnancy, III, 28.
- Weisman, S. A., elimination of quinidine, III, 512.
- Weisman, S. J., oedema and congestion of lungs resulting from intracranial haemorrhage, III, 307.
- Weiss, B. P. See Alpers, B. J.
- Weiss, C., normal radium standard, I, 269.
- See also Franz, H.
- Weiss, E., cardiovascular lesions of probable psychosomatic origin in arterial hypertension, III, 93. Psychosomatic aspects of hypertension, III, 632.
- Weiss, F. T. See Young, W. G.
- Weiss, J., theory of chromatography, I, 266.
- Weiss, M. M., and Hamilton, J. E., effect of gall-bladder disease on electrocardiogram, III, 304.
- Weiss, P., lid-closure reflex from eyes transplanted to atypical locations in *Triturus torosus*, III, 309. Nerve regeneration in rat following tubular splicing of severed nerves, III, 635.
- and Taylor, A. C., repair of peripheral nerves by grafts of frozen-dried nerve, III, 872.
- Weiss, R. S. See Conrad, A. H.
- Weiss, S., treatment of vertigo and syncope, III, 140.
- Stead, E. A., jun., Warren, J. V., and Bailey, O. T., scleroderma heart disease, III, 718.
- Weissberger, A., effect of solvents in chemical reactions. III. Influence of addenda on inversion of *l*-menthone with acids in benzene, II, 202. Inversion of menthone, with trichloroacetic acid in aprotic solvents II, 202. Inversion of *l*-menthone and reaction of diazoacetic ester with chloroacetic acids, II, 202.
- and Porter, H. D., pyrazole compounds. I. Reaction product of phenylhydrazine and ethyl cyanoacetate. II. Synthesis of 3-hydroxy-1-phenyl-5-pyrazoloneimide. III. Condensation of α -carbethoxyacetothioacetanilide with hydrazines, II, 72, 207, 280.
- and Thomas, D. S., jun., inversion of menthone with hydrogen chloride in benzene, II, 239.
- Weissler, G. L., positive and negative point-to-plane corona in pure and impure hydrogen, nitrogen, and argon, I, 173.
- Weissman, M. See Hardt, L. L.
- Weissman, N. See Owen, P. S., and Ratner, S.
- Weissman, S. I., and Lipkin, D., electromagnetic mechanism of β -phosphorescence of fluorescein in acid solution, I, 5.
- Weissmann, M. See Urquijo, C. A.
- Weisz, A., and Taran, L. M., finger puncture method for sedimentation rate, III, 621.
- Weisz, P., nature of gas mixture in self-quenching Geiger-Müller tubes, I, 78.
- Weiss, R. S. See Laubengayer, A. W.
- Weitbrecht, W. See Fricke, R.
- Weith, A. J., jun. See Hobbs, M. E.
- Weitz, E. [with Schmidt, F., and Singer, J.], polarisation of adsorbed substances. IV. Colour change and catalytic effect as a consequence of polarisation due to absorption of surface-active substances, I, 297.
- Weizmann, A., arylnaphthacene series. III II, 296.
- Welch, A. D., Benson, W. M., Latven, A. R., Mattis, P. A., and Shiels, E. M., sulphamerizine. I. Comparison of sulphamerizine with sulphadiazine on basis of absorption excretion, and toxicity, III, 672.
- and Wright, L. D. [with Sprague, K. L.], role of "folic acid" and biotin in nutrition of rat, III, 666.
- See also Jukes, T. H.
- Welch, C. A., Rosenthal, A., Duncan, M. T., and Taylor, H. C., jun., effect of testosterone propionate on renal function in dog, III, 655.
- Welch, C. E. See Parsons, L.
- Welch, C. S., and Yunich, A. M., problem for surgery in treatment of massive haemorrhage of ulcer origin, III, 177.
- Welch, H., Calverv, H. O., McClosky, W. T., and Price, C. W., preparation of, and test for, bacterial pyrogen, III, 606.
- Durrett, J. J., and Slocum, G. G., tetanus from implantation of infected pellets, III, 434.
- Herwick, R. P., and Slocum, G. G., tetanus from sulphonamide dusting powders, III, 585.
- See also McClosky, W. T.
- Welch, P. B., [intestinal] giardiasis with unusual clinical findings, III, 744.
- Welch, R. C. See Hulpius, H. R.
- Welcher, F. J. See Wheelan, K.
- Weld, C. B., Feindel, W. H., and Davson, H., penetration of sugars into aqueous humour, III, 731.
- Weld, J. T., and Mitchell, L. C., effect of diet on anaphylaxis in rat, III, 611.
- Wellham, W. C. See Behnke, A. R., jun.
- Welker, H., superconducting and magnetic exchange interaction, I, 222. Electron theory of superconductivity, I, 273.
- Welker, W. H. See Mann, L. S.
- Weldon, P. B. See Fuson, R. C.
- Welleba, H. See Wessely, F. von.
- Weller, R. A. See Lugg, J. W. H.
- Weller, T. H., development of larvæ of *Trichinella spiralis* in roller tube tissue cultures, III, 658.
- Welles, S. B., electric quadrupole moments of light and heavy nuclei, I, 4.
- Wells, A. F. See Clark, D.
- Wells, A. H., inexpensive apparatus for high-vacuum desiccation and its laboratory uses, III, 615.
- Wells, G. P., potassium relations of invertebrate muscles [and hearts], III, 551.
- Gregory, M., and Ledingham, I. C., salinity and ciliary activity of polychætes, III, 249.
- and Ledingham, I. C., polychæte tissues and magnesium, III, 249. Osmotic relationships of polychætes, III, 249. Potassium effects, tension effects, and accommodation in an annelid rhythmic preparation, III, 658.
- Wells, H. G., jun., seminoma developing in undeveloped genital anlage, III, 572.
- Wells, J. A. See Dragstedt, C. A., and Gray, J. S.
- Wells, L. J., effects of large doses of androgen on testis in ground squirrel, *Citellus tridecemlineatus*, III, 891.
- Wells, L. R., diminutive skull from Peru, III, 224.
- Wells, L. S., Clarke, W. F., and McMurdie, H. F., system $\text{CaO}-\text{Al}_2\text{O}_3-\text{H}_2\text{O}$ at temperatures of 21° and 90° , I, 227.
- Wells, M. W. See Wells, W. F.
- Wells, R. C., third dissociation constant of phosphoric acid and its variation with salt content, I, 61.
- See also North, V.
- Wells, W. F., and Wells, M. W., dynamics of air-borne infection, III, 917.
- and Zappasodi, P., effect of humidity on β -streptococci (group C) atomised into air, III, 607.

- Welsch, M., bacteriostatic and bacteriolytic properties of actinomycetes, III, 354. Bactericidal substances from sterile culture media and bacterial cultures, with reference to bacteriolytic properties of *Actinomyces*, III, 429.
See also Waksman, S. A.
- Welt, L. G., urinary excretion of trichina antigen in experimental trichinosis, III, 697.
- Welti, H., and Huguenin, R., malignant tumours of thyroid gland, III, 251.
- Welman, C. See Ricci, J. E.
- Wendel, W. B., respiratory and carbohydrate metabolism of malaria parasites (*Plasmodium knowlesi*), III, 600.
- and Kimball, S., formation of lactic acid and pyruvic acid in blood containing *Plasmodium knowlesi*, III, 60.
- Wengel, E., and Schrotz, N., effect of temperature on potential of glass electrodes for pH determination, I, 130.
- Wenger, M. A., measurement of individual differences in autonomic balance, III, 101. Seasonal variations in physiological variables, III, 895.
- Wenger, Paul, determination of zinc and cadmium cations with anthranilic acid, I, 208.
- and Duckert, R., analytical study of thorium and cerium cations, I, 209.
- and Duckert, R. [with Busconi, (Mlle.) F.], reagents for cations. VIII. Reagents for cerium cations. IX. Reactions of thallium cations, I, 163, 209.
- Wenger, Pierre. See Briner, E.
- Wenner, H. A., and Casey, A. E., community study of carriers in epidemic poliomylitis, III, 359.
- Wenner, R., and Wattenwyl, H. von, diamine oxidase determination in serum during pregnancy, labour, and puerperium, III, 627.
- Wenstrand, D. E. W. See Feldt, R. H.
- Went, A. E., and Frost, W. E., river Liffey survey. V. Growth of brown trout (*Salmo trutta*, L.) in alkaline and acid waters, III, 126.
- Went, F. W., and Bonner, D. M., growth factors controlling tomato stem growth in darkness, III, 779.
- Wentzel, G., pair-theory of nuclear forces, I, 4.
- Werch, S. C., Jung, R. W., Day, A. A., Friedemann, T. E., and Ivy, A. C., decomposition of pectin and galacturonic acid by intestinal bacteria, III, 209.
See also Marquardt, G. H.
- Wergin, W., electron microscopy of cellulose films, I, 152.
- Werkman, C. H. See Krampitz, L. O., Mickelson, M. N., Slade, H. D., Utter, M. F., and Waring, W. S.
- Werle, E., histidine-decarboxylase and histaminase, III, 681. Destruction of histamine by bacteria, III, 848.
- Werie, J. M. See Quigley, J. P.
- Werner, A. A., Spector, H. I., Vitt, A. E., Ross, W. L., and Anderson, W. A. D., pubertas praecox in six-year-old boy with testicular tumour, III, 122.
- Werner, H., binocular vision—normal and abnormal, III, 315.
- and Doljanski, L., partial purification of cell growth-promoting principles in adult tissue extracts, III, 368.
- Werner, H. O., relation of length of photoperiod and intensity of supplemental light to production of flowers and berries in the greenhouse by varieties of potatoes, III, 72. Dry matter, sugar, and carotene content of morphological portions of carrots through the growing season, III, 538.
- Werner, J. See Helferich, B.
- Werner, L. See Razicka, L.
- Werner, S. C., quantitative study of urinary excretion of hypophyseal gonadotropin, oestrogen, and neutral 17-ketosteroids of normal men, III, 746.
- and West, R., nitrogen retention, creatinuria, and other effects of treatment of Simmonds' disease with methyltestosterone, III, 736.
- Werner, W. See Schulz, M.
- Wertenberger, G. E., sulphonamides and blood-pH, III, 339.
See also Greisheimer, E. M.
- Wertheimer, E. See Shapiro, B., and Stein, L.
- Werthessen, N. T. See Lawrence, C. H.
- Wertman, K. See Plotz, H.
- Wesner, M. M. See Chakravorty, P. N.
- Wespi, H., thalamic stimulation and blood composition, III, 724.
- Wessel, W., spin and radiation force, I, 113.
- Wesselhoeft, C., respiratory failure in acute poliomyelitis and use of respirator, III, 870.
- Wessely, F. von, synthetic oestrogens, III, 563. and Lauterbach, T., quinone dyes of phenanthrofuran series. III. Constitution of tanishone II, II, 101.
- and Plaichinger, I., constitution of photodimers of coumarins and furcoumarins, II, 100.
- and Welleba, H., synthetic oestrogens. II. Configuration of synthetic oestrogens, II, 363.
- Wesson, H. R. See Bargen, J. A.
- West, C. D., polarising accessories for microscopes, I, 101.
- West, D. E. See Borman, E. K.
- West, E., MacGregor, W. S., Evans, T. H., Levi, I., and Hibbert, H., lignin and related compounds. LXVI. Ethanolysis of maple wood, II, 346.
- MacInnes, A. S., and Hibbert, H., lignin and related compounds. LXIX. Isolation of α -4-hydroxy-3-methoxyphenylpropan- β -one and α -ethoxy- α -4-hydroxy-3-methoxyphenylpropan- β -one from ethanolysis products of spruce wood, II, 346.
- West, E. S., and Binehart, R. E., reaction of ninhydrin with ascorbic acid and other endiol compounds; decarboxylation of dehydroascorbic acid, II, 54.
See also Hight, D. M., and Richardson, H. L.
- West, H. D., and Jefferson, N. C., effect of aromatic hydrocarbons on growth of young rats, III, 252.
- Jefferson, N. C., and Rivera, R. E., effect of aromatic hydrocarbons on growth; reversible inhibition of pantothenic acid by sulphapyridine, III, 577.
- West, H. F., adenoma of pancreas with hyperinsulinism, III, 323.
- West, K. A., and Hibbert, H., lignin and related compounds. LXIV. Synthesis and properties of γ -hydroxy- γ -4-hydroxy-3-methoxyphenylpropan- α -one, II, 301.
- West, L. E., and Gahler, A., apparent degree of ionisation of hydrochloric, sulphuric, and acetic acids; electrical conductivity experiment, I, 168.
and Wilson, Arthur, preparation of ammonium hydroxide in the laboratory, I, 184.
- West, P. M., and Wilson, P. W., growth factor of root nodule bacteria, *Rhizobium trifolii*, III, 207.
- West, P. W., spot plate for drop tests, I, 266.
- West, R. See Werner, S. C.
- West, R. A., Lewis, K. H., and Militzer, W. E., growth of non-sporulating anaerobic bacteria of intestinal origin in synthetic media. I. Requirements and importance of pyruvic acid, III, 62.
- West, R. F., bacillary dysentery: treatment with sulphaguanidine, III, 906.
- West, T. F. See Gillam, A. E.
- West, W. T. See Coloviras, G. J., jun.
- Westendorp, W. F. See Charlton, E. E.
- Westerfeld, W. W., and Berg, R. L., metabolism of acetoin, III, 757.
- Berg, B. L., and Stotz, E., coupled oxidation-reduction of alcohol and pyruvate in vitro, III, 829.
- and Lowe, C., oxidation of *p*-cresol by peroxidase, II, 29.
See also Doisy, E. A., jun., and Green, D. E.
- Westerman, E. See Beeson, P. B.
- Westfall, R. B., reduction of 2:4:6-trinitrotoluene by animal tissue *in vitro*, III, 908.
and Smith, M. I., estimation of reduced degradation products in experimental trinitrotoluene poisoning, III, 347.
- Westfall, R. J. See Hilton, J. H., and Kazal, L. A.
- Westgren, A. See Almin, K. E., and Perlitz, H.
- Westheimer, F. H., Jones, W. A., and Lad, R. A., electrostatic influence of substituents on reaction rates. III. Solvent effect, I, 20.
See also Grigsby, W. E., and Price, Donna.
- Westman, A., effect of pituitary and diencephalon on sexual function, III, 114.
- Westoll, T. S., Permian fishes, *Dorypterus* and *Lekanichthys*, III, 2. Origin of tetrapods, III, 449.
- Weston, A. W., Buddy, A. W., and Suter, C. M., condensation of unsaturated amines with aromatic compounds; preparation of β -substituted phenylethylamines, II, 225.
See also Suter, C. M.
- Weston, W. A. R. D., and Taylor, R. E., development of *Penicillium* on cut surfaces of vegetables, III, 353.
- Westphal, O., alkylation of hydrazine, II, 354. and Holzmann, H. [with Reiche, E.], glucosamine, α - and β -glucosamine and pentaacetylglucosamine, II, 121.
- Westphal, W. See Freudenberg, K.
- Westphal, W. H., definition of mol. wt., the mol, and Loschmidt's number, I, 34.
- Westrum, E. F., jun. See Guttmann, L.
- Wetrich, R. M. See Syerton, J. T.
- Wettstein, A., Hunziker, F., and Miescher, K., constitution of castolol, V., II, 377. and Miescher, K., constitution of castolol, III, and IV., II, 199, 203, 272.
- Wetzl, N. C., assessing physical condition of children, III, 617, 660.
- Wetzl, V. See Hadley, P.
- Weygand, C., and Rettberg, I., ethylenic stereoisomerism. VI. Crystalline cis-stilbene, II, 296.
and Siebenmark, T., ethylenic stereoisomerism. V. Molecular compounds of stereoisomeric ethylenes [stilbenes], II, 298.
- Weygand, F., preparation of β -alanine, II, 355.
- Weyl, W. A. See Linwood, S. H.
- Weyrauch, H. M., jun., Burns, R. A., Peterfy, R. A., and Hinman, F., uretero-intestinal implantation. IV. Ureterovesical re-implantation in dog, III, 746.
and Hinman, F., significance of ureterocloacal reimplantation in chicken, III, 248.
and McMahon, S., renal colic caused by early obstruction of lower urinary tract, III, 398.
- Whalen, M. L. See Buhle, E. L.
- Whalley, H. K., absorptiometer, polarograph, and spectrograph, I, 27.
- Whapham, E. M. See Rickford, R. B. K.
- Wharton, G. W., function of respiratory pigments of turtle parasites, III, 306.
- Wheeler, A. H., and Nunger, W. J., effect of mucin on influenza virus infection in hamsters, III, 68.
- Wheeler, C. M., and Douglas, J. R., transmission studies of sylvatic plague, III, 606.
See also Douglas, J. R., and Evans, F. C.
- Wheeler, J. R., treatment of concomitant squint, III, 165.
- Wheeler, K. M. See Borman, E. K., and Stuart, C. A.
- Wheeler, L. J., rigid stands for laboratory apparatus, I, 73.
- Wheeler, L. M., dihydroxypropyl bismuthate, III, 835.
- Wheeler, M. C., objective strabismometry in young children, III, 730.
- Wheeler, R. E., Lackey, J. B., and Schott, S., animal toxicity of a blue-green alga, III, 295.
- Wheeler, T. S. See Acharya, B. G. S.
- Whelan, F. See Richter, C. P.
- Whelan, K., and Welcher, F. J., α -picoline methiodide as a reagent for bismuth, I, 264.

- Wheland, G. W., and Farr, J., acid strengths of aliphatic nitro-compounds, I, 278.
- Whetstone, R. R. See Linstead, R. P.
- Whiffen, A. J., cellulose decomposition by the saprophytic chytrids, III, 204.
- Whipple, A. O., essential principles in clean wound healing, III, 204. [Rôle of liver in surgery and] cephalin flocculation test, III, 566.
- Whipple, G. H., and Robscheit-Robbins, F. S., haemoglobin production factors in human liver; anaemias, hypoproteinæmia, cirrhosis, pigment abnormalities, and pregnancy, III, 83.
- See also Hahn, P. F., Madden, S. C., Miller, L. L., and Robscheit-Robbins, F. S.
- Whistler, R. L., and Schiltz, N. C., orientation in stretched films of amylose triacetate, I, 251.
- Whitacre, F. E., and Fang, L. Y fatty degeneration of liver in pregnancy, III, 179.
- Whitacre, F. M. See Olson, W. T.
- Whitcher, W. J. See Jacobs, T. L.
- White, A., lactogenic hormone and mammogen, III, 560.
- See also Gardner, W. U., and Sayers, G.
- White, A. G. C. See Stone, R. W., and Woolley, D. W.
- White, B. V., Durkee, R. E., and Mirabile, C., [nephrectomy in] renal hypertension, III, 870.
- White, (Miss) C. F. See Li, C. H.
- White, C. H., why the sea is salt, I, 44.
- White, D. G. See Childers, N. F.
- White, E. C., and Hill, J. H., antibacterial products formed by moulds. I. Aspergillic acid, product of strain of *Aspergillus flavus*, III, 916.
- White, E. V., constitution of arabo-galactan. IV. Structure of repeating unit, II, 124.
- White, F. D. See Cameron, A. T.
- White, G. C. See Shaw, J. C.
- White, H. C., and Bergstrom, F. W., Hofmann type rearrangement in liquid ammonia, II, 173.
- White, H. J., sulphonamides and coliform bacteria, III, 673.
- See also Marshall, E. K.
- White, H. L., Heinbecker, P., and Rolf, D., removal of anterior pituitary and renal function, III, 239.
- See also Findley, T., and Heinbecker, P.
- White, J., and Andervont, H. B., effect of diet low in cystine on production of spontaneous mammary-gland tumours in strain C3H female mice, III, 749.
- and Edwards, J. E., effect of supplementary methionine or choline plus cystine on incidence of *p* dimethylaminoazobenzene-induced hepatic tumours in rat, III, 182.
- Mider, G. B., and Heston, W. E., comparison of dosage of methylcholanthrene on production of leukæmia and sclerotic lesions in strain Dilute Brown mice on a restricted cystine diet, III, 749.
- and Stewart, H. L., intestinal adenocarcinoma and intra-abdominal hæmangi-endothelioma in mice ingesting methylcholanthrene, III, 401.
- See also Edwards, J. E., and Greenstein, J. P.
- White, J. C., surgery of autonomic nervous system, III, 798.
- White, J. W., jun., Brunson, A. M., and Zscheile, F. P., spectrophotometric determination of carotenoids of yellow corn grain, III, 219. Carotenoids of yellow maize grain, III, 295.
- White, M. S., value of pseudo-isochromatic colour vision test in original applicants for military flying, III, 554.
- White, N. G. See Swan, K. C.
- White, P. See Joslin, E. P.
- White, P. D., cardiac problems in war time, III, 630.
- and Blumgart, H. L., cessation of repeated pulmonary infarction and congestive failure after termination of auricular fibrillation by quinidine therapy, III, 586.
- See also Baker, E. A., and Graybiel, A.
- White, P. R., and Braun, A. C., cancerous neoplasm of plants; autonomous bacteria-free crown-gall tissue, III, 332.
- White, R. L. See Bessey, O. A.
- White, R. R., and Brown, G. G., phase equilibria at high temperatures, I, 62.
- White, T., synthesis of methacrylic acid, II, 215. and Haward, R. N., preparation and polymerisation of methyl vinyl ketone, II, 82.
- White, T. N. See Edwards, J. E.
- White, W. B., Clifford, P. A., and Calvery, H. O., lethal dose of lead for cow: elimination of ingested lead through milk, III, 678.
- White, Weldon C. See Clark, P. F.
- White, William C., graphical interpretation of X-ray diffraction data using polar co-ordinates, I, 272.
- White, W. H., Winkler, C. A., and Kenalty, B. J., reaction of hydrogen atoms with isobutane, II, 53.
- White-Stevens, R. H. See Jacob, W. C.
- Whitehead, E. I., and Olson, O. E., effect of nitrates on determination of protein-nitrogen by Kjeldahl method, III, 152.
- Whitehead, F. See Bachmann, W. E.
- Whitehead, R. W. See Chouké, K. S., Duffner, G. J., and Neubuerger, K. T.
- Whitehead, W. H., Windle, W. F., and Becker, R. F., changes in lung structure during aspiration of amniotic fluid and during air-breathing at birth, III, 11.
- Whiting, K., geology of the Coeur d'Alene mining district, Idaho, I, 324.
- Whitman, B. See Papa, D.
- Whitman, L., intraperitoneal test for yellow fever based on greater susceptibility of immature white mice to extraneurial infection of yellow fever virus, III, 530.
- Whitman, N. E. See Borchers, R.
- Whitmore, F. C., Clarke, D. G., Cosby, J. N., and Sloatman, W. S., higher hydrocarbons. II. Five λ -substituted heneicosanes, II, 21. and Forster, W. S., Grignard reactions. XVII. Reactions of esters and acid chlorides with Grignard reagents, II, 178.
- Haimsohn, J. N., and Surmatis, J. D., esters of methylneopentylacetic acid, II, 216.
- Kilmer, G. W., Rowland, C. S., and Wrenn, S. N., dehydration of alcohols. XIX. *tert*-Amyl alcohol and related dimethyl-neopentylcarbinol, II, 118.
- and Lewis, C. E., Grignard reactions. XVI., II, 178.
- and Sloat, T. K., Grignard reactions. XVIII. Reactions of magnesium benzyl chloride, II, 178.
- and Zook, H. D., common basis of intramolecular rearrangements. IX. Formation of cyclopropanes from monohalides. III. Action of sodium alkyls on aliphatic chlorides; relation to Wurtz reaction, II, 21.
- Whitmore, O. S., and Kahlstrom, S. C., evantraition of right diaphragm, III, 154.
- Whitney, D. V. See Copley, A. L.
- Whitney, L. H., and Barratt, A. S., jun., spontaneous and hereditary thrombopenic purpura in mother and two sons, III, 86.
- Whitney, M. E. See Copley, A. L.
- Whitney, R. See Burdick, H. O.
- Whitney, R. B. See Ziegler, K.
- Whitney, R. J., size and metabolic rate in flatworms, III, 668.
- Whitton, J. See Marvel, C. S.
- Whittemore, M. B. See Hawks, J. E.
- Whittemore, W. L., Royster, C. L., and Riedel, P. A., sulphapyridine in lobar pneumonia, III, 49.
- Whitten, L. K., control of internal parasites with phenothiazine, III, 832.
- Whittenberger, J. L. See Williams, R. H.
- Whittington, R. B. See Miller, A. K.
- Whitwell, J. C. See Page, E. C., jun.
- Wiberg, E., and Bolz, A., "inorganic benzene," $B_3N_3H_6$, I, 207.
- Wichrowski, A. F. See Burford, M. G.
- Wick, Ann N. See Martin, Helen E.
- Wick, Arne N. See Kuizenga, M. H.
- Wicke, E., adsorption and desorption processes during the streaming [of gas] through layers of granular adsorbent, I, 275.
- Wickert, K., e.m.f. measurements in liquid sulphur dioxide, I, 258.
- Wicks, L. F., purification of gum ghatti, III, 448.
- and Firminger, H. I., perchloric acid in micro-Kjeldahl digestions, I, 41.
- and Suntzeff, V., reduction of total lipid/protein-nitrogen ratio of mouse epidermis by a single application of methyl-cholanthrene, III, 250.
- Wicks, Z. W. See Adams, R.
- Widdowson, E. M., and McCance, R. A., war and schoolboys' food, III, 493. Food tables, III, 750.
- See also McCance, R. A.
- Wideqvist, S., β -cyano- β -phenylpropionic acid, II, 163.
- See also Ramberg, L.
- Widger, S. W., and Stevens, R., blood transfusion set, III, 226.
- Widmann, A. See Jost, W.
- Widmann, G. See Huf, E.
- Wieczorowski, E. See Gray, J. S.
- Wiedling, S., antagonism between sulphanyl-amides and *p*-aminobenzoic acid in peas, III, 362.
- Wiegand, E. J. See Ellis, F. W.
- Wiegand, J. H., mixed solvent extraction, I, 240.
- Wiegner, F., solubility of hydrogen chloride in cyclohexane, I, 225.
- Wieland, H., and Benend, W., subsidiary sterols of yeast. X. Relationships between lanosterol and cryptosterol, II, 13.
- Benend, W., and Rath, F., subsidiary sterols of yeast. VII. Zymosterol, II, 268.
- Hallermayer, R., and Zilg, W., *Amanita* toxins. VI. Amanitin, the chief poison of *Amanita*, II, 285.
- Heki, M., and Seibert, W., bile acids. LVII. Separation of constituents of ox bile, II, 269.
- Hesse, H., and Rath, F. subsidiary sterols of yeast. VIII. Constitution of ascosterol, facosterol, episterol, and neosterol, II, 268. and Meyer, Aurel, occurrence of free radicals in chemical reactions. X. Aromatic diacyl peroxides and triphenylmethyl, II, 4.
- and Purmann, R., wing-pigments of butterflies. VI. Leucopterin and xanthopterin, II, 395.
- Purmann, R., and Tartter, A., wing-pigments of butterflies. IX. "Anhydroleucopterin" and "purpuroflavin," II, 342.
- and Tartter, A., wing-pigments of butterflies. VIII. Pterobilin, the blue pigment from *Pieridae* wings, II, 342.
- Wieland, T., application of acidic and basic alumina columns to analysis of protein hydrolysates, II, 18. Glutamic acid from tumours, III, 250.
- See also Kuhn, R.
- Wien, R., pharmacological actions of aromatic diamidines possessing trypanocidal activity, III, 907.
- Freeman, W., and Scotcher, N. M., metabolic effects produced by aromatic diamidines, III, 908.
- See also Barber, H. J.
- Wiener, A. S., Aronson, W., and Silverman, I. J., prevention of haemolytic transfusion reactions with reference to biological test, III, 227.
- and Moloney, W. C., haemolytic transfusion reactions; differential diagnosis: "dangerous universal donor" or intragroup incompatibility ?, III, 622.
- See also Goldfarb, A. I., and Landsteiner, K.
- Wierda, J. L., relative growth-rates within incisor tooth of rat, III, 77.
- Wiersma, C. A. G., and Ellis, C. H., peripheral inhibition in crustaceans, III, 551.
- and Novitski, E., nervous regulation of crayfish heart, III, 629.
- See also Ellis, C. H., and Van Harrevelde, A.

- Wies, D. See Mixter, W. J.
 Wiese, H. F. See Hansen, A. E.
 Wiese, J. H., Abrigo [Arizona] limestone, I, 323.
 Wiesel, B. See Polatin, P.
 Wietig, E., diffusion in ionic crystals, I, 179.
 Wiggers, C. J. See Huizenga, K. A.
 Wiglesworth, V. R., development of cuticle pattern in *Rhodnius*, III, 223. Moultling in *Rhodnius prolixus*, III, 249. Storage of food and uric acid in mosquito larvæ, III, 669.
 Wikholm, D. M. See Frank, R. L.
 Wilber, C. G., digestion of fat in protozoa, III, 893.
 Wilbrandt, W., calculation of constants of cell permeability for rapidly penetrating substances, III, 680.
 See also Stämpfli, R.
 Wilbur, J. W. See Hilton, J. H.
 Wilburne, M., and Langendorf, R., significance of electrocardiogram with prominent S waves in leads I, II, and III, III, 304.
 and McGoldrick, T. A., prolonged administration of sulphapyridine in subacute bacterial endocarditis, III, 263.
 Wilcox, E. B., meat in nutrition. XXI. Distribution and partition of fats in tissues of rats fed a diet containing dried autoclaved pork muscle, III, 662.
 Wild, H. See Ruzicka, L.
 Wilde, J. F., narcoanalysis in war neuroses, III, 420.
 Wilde, J. K. H., anaesthesia in cattle using chloral hydrate intravenously, III, 267.
 Wilde, M. O. See Hawks, J. E.
 Wilde, W. T., and Rees, W. J., ternary system $MgO-Al_2O_3-Cr_2O_3$, I, 278.
 Wilder, M. E. See Goldman, L. M.
 Wilder, R. M., and Keys, T. E., unusual foods of high nutritive value, III, 573.
 See also Williams, R. D.
 Wilder, V. M. See Gedgoud, J. L.
 Wildi, R. S. See Wolfrom, M. L.
 Wildman, S. G. See Gordon, S. A.
 Wilds, A. L., and Shunk, C. H., preparation of derivatives of chrysene by Robinson-Mannich base synthesis of unsaturated ketones, II, 197.
 Wildt, R., chemistry of atmosphere of Venus, I, 168. Geochemistry of atmosphere and constitution of terrestrial planets, I, 187.
 Wile, I. S., eye dominance: its nature and treatment, III, 315.
 Wile, U. J., and Schamberg, I. L., pulmonary fat embolism following [arsenical] infusions via the bone marrow, III, 422.
 Wilen, C. See Browne, D. C.
 Wilens, S. L., effect of postural hypertension on development of atheromatosis in rabbits fed cholesterol, III, 462.
 Wilensky, A. O., essential nature of non-specific granulomatous lesions of gastro-intestinal tract, III, 246.
 Wiles, Q. T. See Cromwell, N. H.
 Wilhelm, S. F. See Turkell, J.
 Wilhelm, A. E. See Frame, E. G.
 Wilhelmi, R. W., serology and ancestry of vertebrates, III, 696.
 Wilhelms, A. See Müller, Alexander.
 Wilkening, M. H., and Kanne, W. R., localisation of discharge in Geiger-Müller counters, I, 138.
 Wilkerson, A. S., optical properties of 2-sulphanilamidopyrimidine (sulphadiazine), I, 9.
 Wilkins, R. W. See Eichna, L. W.
 Wilkins, W. See Milam, D. F.
 Wilkinson, P. B., sulphanilamide in smallpox, III, 263.
 Wilkinson, S. A., obstructed peptic ulcer, III, 176.
 Willard, C. Y. See Cantor, A.
 Willard, H. H., and Toribara, T. Y., volumetric determination of tin, based on formation of a dioxalatothiomestannate, I, 25.
 Wille, E. C., jun. See Kuhn, H. S.
 Willenberg, W. See Ruff, O.
 Willett, E. I. See Salisbury, G. W.
 Willett, E. L. See Gunsalus, I. C.
 Willett, J. C. See Rumreich, A. S.
 Willey, E. J. B., photo-electric polarimeter, I, 186.
 Willfang, G., catalytic preparation of cyclic acetals of aldehydes and ketones, II, 293.
 Williams, A., Ludwig's angina, III, 163.
 Williams, A. J., and Hartzell, H. V., gas gangrene, III, 434.
 Williams, B., dystocia dystrophia syndrome, III, 119.
 Williams, B. W. See McClean, D.
 Williams, C., and Ellis, L. B., ventricular tachycardia, III, 460.
 Williams, C. C., Cameron, E. J., and Williams, O. B., facultatively anaerobic mould of unusual heat-resistance, III, 203.
 Williams, C. H., Bloor, W. R., and Sandholzer, L. A., lipins of enteric bacilli, III, 209.
 Williams, C. M., temperature gradients and silkworm development, III, 620.
 Williams, C. R., atmospheric contamination from the casting of magnesium, III, 837.
 and Evans, R. D., storage of radium dial instruments, III, 837.
 See also Schulz, R. Z.
 Williams, D., and Stallcup, W. D., spectroscopic evidence of intramolecular transfer of protons, I, 52.
 Williams, D. E., MacLeod, F. L., and Morrell, E., availability to rats of phosphorus in red clover hays of widely different phosphorus content, III, 252.
 Williams, E. See Kaplan, A.
 Williams, E. F. See Bailey, K., and Chibnall, A. C.
 Williams, E. G. See Andrews, H. L.
 Williams, G. E., and Gilbert, E., vapour pressure of phenylhydrazine as a function of temperature, I, 120.
 Williams, G. Z. See Forbes, J. C.
 Williams, H. H., Endicott, E. N., Shepherd, M. L., Galbraith, H., and Macy, I. G., fat excretion by normal children, III, 504.
 See also Beach, E. F., Hummel, F. C., Kaucher, M., and Teague, D. M.
 Williams, H. V., clinical toxicity of sulphapyridine, III, 760.
 Williams, J. L., development of cervical vertebrae in chick under normal and experimental conditions, III, 2.
 Williams, J. R., diabetes mellitus and pyogenic skin infections, III, 193.
 Williams, John W. See Kaplan, I.
 Williams, Jonathan W., Rainey, W. T., jun., and Leopold, R. S., identification of amides through mercury derivatives, II, 11.
 See also Bridgeman, W. B.
 Williams, K. T. See Bickoff, E.
 Williams, M. A., mitochondria in intestinal epithelial cells of starved and fed salamanders, III, 452.
 Williams, N. H., late postpartum haemorrhage, III, 326.
 Williams, O. B., and Reed, J. M., significance of incubation temperature of recovery cultures in determining spore resistance to heat, III, 434.
 See also Stern, R. M., and Williams, C. C.
 Williams, P. C. See Dodds, E. C.
 Williams, R., Clayton-Cooper, B., Duncan, J. McK., and Miles, E. M., CTAB in surgery, III, 766.
 Williams, R. D., Cusick, P. L., Mason, H. L., and Wilder, R. M., induced riboflavin deficiency and riboflavin requirement of man, III, 499.
 Mason, H. L., Power, M. H., and Wilder, R. M., induced thiamin deficiency in man, III, 498.
 Mason, H. L., and Wilder, R. M., minimum daily requirement of thiamin in man, III, 498.
 See also Higgins, G. M., and Mason, H. L.
 Williams, R. H., and Whittenberger, J. L., treatment of Simmond's disease, III, 112.
- Williams, Robert J., hyperplasia of megakaryocytes in pneumonia and its relationship to leukoblastic hyperplasia of the bone marrow, III, 459.
 Williams, Roger J., vitamin-B requirements of man, III, 254.
 See also Pollack, M. A., and Taylor, A.
 Williams, R. R. See Lane, R. L.
 Williams, R. R., jun. See Ogg, R. A., jun.
 Williams, R. T., 5-amino-2-hydroxybenzenesulphonamide and related compounds, II, 31. Detoxication. XIII. Biosynthesis of amino-phenyl- and sulphonamidoaminophenyl-glucuronides in rabbit and their action on haemoglobin *in vitro*, III, 829.
 Williams, S. R. See Swales, W. E.
 Williams, T. I. See Chain, E.
 Williams, T. W., gross differential staining of peripheral nerves in cleared vertebrate tissue, III, 706.
 Williams, W. E., construction and use of reflexion echelons, I, 186. Attempts at obtaining excitation of an atomic beam of monatomic hydrogen, I, 209.
 Williams, W. L. See Atkin, L., and Pfaff, R. A.
 Williamson, D. A. J. See Morgan, H. V.
 Williamson, H. L. See Craver, B. N.
 Williamson, L. See Menville, L. J.
 Williamson, M. B., and Gulick, A., determination of alkaline-earth minerals in thymus nuclei, III, 22.
 See also Reineke, E. P.
 Williamson, P. M., Anderson, Robbin C., and Watt, G. W., kinetics of ammonolysis of 9-chloro-9-phenylfluorene by liquid ammonia, I, 157.
 Williamson, R. E., and DeKay, H. G., athletes' foot and its control, II, III, 60.
 Williamson, Ralph E., wave function for negative hydrogen ion, I, 111.
 Williamson, R. R., and Bloch, I., theory of electrical polarity in cells, III, 200.
 See also Householder, A. S.
 Williamson, S. See Back, S. J., and Krebs, H. A.
 Williamson-Noble, F. A., possible fallacy in use of cross-cylinder, III, 235.
 Willis, D. A., Coe, G. C., and Arendt, J., spasm of last ileal loop simulating regional ileitis, III, 396.
 Willis, L. H. See Pierce, J. S.
 Willis, W. H., thrombocytopenic purpura and carcinoma of stomach, III, 86.
 Williston, A. F., [laboratory] method for producing electrolytic gas, I, 260.
 See also Foster, L. S.
 Willius, F. A. See English, J. P.
 Willmer, E. N., physiology of colour vision, III, 314, 732. Carbohydrate metabolism of chick fibroblasts, III, 452. Phosphatase in chromosomes, III, 544.
 Willmert, G. P. See Cheever, F. S.
 Wills, L., Mackay, H. M. M., Bingham, K., and Dobbs, R. H., anaemia in women and children on war-time diets, III, 456.
 See also Mackay, H. M. M.
 Willson, J. R., and Goforth, M. L., effect of excess of ingested carbohydrate on glycogen content of vaginal epithelium, III, 116.
 Willson, S. D., effect of reduction on the rotatory power of furan compounds, II, 272.
 Willumsen, H. C., Stadler, H. E., and Owen, C. A., comparative effect of vitamin-K and whole blood on prothrombin deficiency of newborn infant, III, 547.
 Wilson, Alfred, combination of cross cylinder and astigmatic chart in correction of astigmatism, III, 105.
 Wilson, Arthur. See West, L. E.
 Wilson, C. V. See Allen, C. F. H.
 Wilson, D. A. See Strickler, H. S.
 Wilson, D. C., nutrition of Oxfordshire children in wartime, III, 493.
 See also Bromehead, C. V., and Kemp, F. H.
 Wilson, E. B., and Worcester, J., determination of $L.D_{50}$ and its sampling error in bio-assay. I—III, III, 615, 928. Bio-assay on a general curve, III, 703.

- Wilson, E. J., jun., Schoch, T. and Hudson, C. S., action of *macerans* amylase on fractions from starch, II, 321.
See also Schoch, T. J.
- Wilson, F. J. See Sharp, W.
- Wilson, F. L. See Tanner, F. W.
- Wilson, F. N., form of QRS deflexion of electrocardiogram in bundle branch block, III, 549.
- Wilson, G. S. pasteurisation of milk, III, 494.
See also Ormiston, G.
- Wilson, G. W., study of structural and instinctual conflicts in cases of hay fever, III, 100.
- Wilson, H., and Rigdon, R. H., capillary permeability and inflammation in skin of rabbits: experimental studies following sectioning of spinal cord, III, 10.
- Wilson, H. D. B., and Hendry, N. W., geology and quicksilver deposits of Coso Hot Springs area, I, 291.
- Wilson, H. E. See Saslaw, S.
- Wilson, H. E. C., sulphapyridine and acid-base metabolism, III, 510.
- Wilson, I. A., X-ray analysis of potassium perchromate, K_2CrO_8 , and isomorphous compounds, I, 146.
- Wilson, J. A. See Pullen, R. L.
- Wilson, J. B., and Wilson, P. W., biotin as growth factor for *Rhizobia*, III, 61. Action of inhibitors on hydrogenase in *Azotobacter*, III, 426. Hydrogen in metabolism of *Azotobacter*, III, 432.
- Wilson, J. Gordon, flying, III, 805.
- Wilson, James G. See Allen, E.
- Wilson, J. L. See Fink, H. W., and Ordal, E. J.
- Wilson, J. V., and Tunbridge, R. E., blast injuries, III, 746.
- Wilson, J. W. See Tarbell, D. S.
- Wilson, K. M., and Chambers, R., cell movements in healing of micro-wounds *in vitro*, III, 621.
- Wilson, M. G., and Lubschez, R., prognosis for children with congenital anomalies of heart and central vessels, III, 90.
- Lubschez, R., and Schweitzer, M. D., familial epidemiology of rheumatic fever: genetic and epidemiologic studies, III, 692.
- See also Kempf, J. E.
- Wilson, O. C., absolute dimensions of a Wolf-Rayet star and expanding envelope hypothesis, I, 77.
- Wilson, P. W., Burris, R. H., and Coffee, W. B., hydrogenase and symbiotic nitrogen fixation, III, 602.
- and Lind, C. J., carbon monoxide inhibition of *Azotobacter* in microrespiration experiments, III, 772.
- See also Burris, R. H., Eisenhart, C., Lind, C. J., West, P. M., and Wilson, J. B.
- Wilson, R., and Mangun, G. H., acute haemolytic anaemia in fertiliser workers [due to arsenic ?], III, 454.
- Wilson, R. A. See Sabine, H. J.
- Wilson, R. A. J., decalcification *in vacuo*, III, 368. Preparation of high-percentage starch media and starch-free agar base, III, 431.
- Wilson, R. C. See Henze, H. R.
- Wilson, R. H., benzene poisoning in industry, III, 140.
- Wilson, T. E. See Poate, H. R. G.
- Wilson, T. P., infra-red and Raman spectra of polyatomic molecules. XVIII. Trideutero-nitromethane. XX. *cycloButane*, I, 297.
- Wilson, V. C., and Hughes, D. J., cloud-chamber and counter studies of cosmic rays underground, I, 190.
- Wilson, W., thermodynamical notes, I, 7.
- Wilson, W. D., and Mayo, C. W., postoperative myxoedema, III, 388. Histological study of thyroid of exophthalmic goitre during iodine administration, III, 389.
- Wilson, W. H. See Hammouda, M.
- Wilson, William H., prevention of traumatic deafness, III, 643.
- Wilson, W. J., Robert Child's chemical book list of 1641, I, 288.
- Wiltsberger, P. B., colour perception, III, 386.
- Wimpenny, R. S., nation's food. VI. Fish as food. I. Biology of sea fisheries, III, 661.
- Wimpfheimer, S., and Feresten, M., effect of oestrogenic therapy on decubitus ulcers of a large rectocele, III, 117.
- Winberg, H., cozymase content of sperm of birds, III, 520.
- Winberg, H. E. See Hurd, C. D.
- Winchester, C. F., and McKenzie, F. F., influence of cell concentration on respiration rate of sperm, III, 651. Influence of pH on respiration rate of sperm, III, 652.
- Windaus, A., and Riemann, U., action of lead tetra-acetate on sterole derivatives, II, 13.
- Riemann, U., Rüggeberg, H. H., and Zühlstorff, G., action of lead tetra-acetate on *isodehydrocholesterol*, II, 95.
- Riemann, U., and Zühlstorff, G., action of mercuric acetate on $\Delta^{10:12}$ -cholestadien-3-ol (*isodehydrocholesterol*), II, 95.
- and Roosen-Runge, C., Δ^{11} -dehydrono-ergosterol, II, 268.
- Winding, C. C. See Montonna, R. E.
- Windle, W. F., and Becker, R. F., effects of anoxia at birth on central nervous system of guinea-pig, III, 307.
- and Fitzgerald, J. E., development of human mesencephalic trigeminal root and related neurons, III, 542.
- Rhines, R., and Rankin, J., Nissl method using buffered solutions of thionin, III, 453.
- See also Cowgill, E. J., and Whitehead, W. H.
- Windmaisser, F., niobates and tantalates, I, 282.
- See also Halla, F.
- Winer, J. H., and Mattice, M. R., routine analysis of urinary calculi, III, 746.
- Winer, N. J., renal function in diabetes insipidus, III, 126.
- Winfeld, J. M., and Kaulbersz, J., influence of bile on gastric motility, III, 395.
- Wing, W. M., and Smith, C. A., spontaneous and induced sensitivity to foodstuffs: X-ray studies of small intestine in man and guinea-pig, III, 531.
- See also Stull, A.
- Wingard, R. M., allergic dermatoses due to food hypersensitivity, III, 697.
- Wingfield, C. A., environment and growth of trout, III, 400.
- Winkel, A., and Siebert, H., polarographic study of *cis-trans* isomerism of azo-compounds, II, 361.
- Winkelman, N. W., and Moore, M. T., progressive degenerative encephalopathy; occurrence in infancy, with antenatal onset simulating "swayback" of lambs, III, 728.
- Winkelmann, E. See Ziegler, K.
- Winkelstein, A., section of vagus nerve in treatment of peptic ulcer, III, 483.
- Cornell, A., and Hollander, F., intragastric drip therapy for peptic ulcer, III, 564.
- and Rothschild, L., psycho-somatic background of peptic ulcer, III, 892.
- See also Cornell, A.
- Winkler, A. J. See Amerine, M. A.
- Winkler, A. W., Durlacher, S. H., Hoff, H. E., and Man, E. B., changes in lipid content of serum and of liver following bacterial renal ablation or ureteral ligation, III, 816.
- See also Ollayos, R. W., Rubin, M. A., and Smith, P. K.
- Winkler, C. A. See Darwent, B. de B., Hay, A. W., Rabinovitsch, B. S., Wang, S. N., and White, W. H.
- Winkler, E., effect of temperature on streaming double refraction of benzene, I, 7.
- Winkler, F. See Siedel, W.
- Winn, G. W. See Van Ravenswaag, A. C.
- Winn, W. A., Hughes, C. L., and Sanders, J. M., subacute bacterial endocarditis complicating patent ductus arteriosus, III, 630.
- Winnek, P. S. See Anderson, G. W.
- Winslow, C. E. A. See Spangler, C. D.
- Winslow, E. H., and Liebhafsky, H. A., crude boron, analysis and composition, I, 69.
- Winsor, T., and Burch, G. E., renal complications following sulphathiazole, III, 418.
- Winstein, S., rôle of neighbouring groups in replacement reactions. III. Retention of configuration in reaction of γ -bromobutan- β -ols with phosphorus tribromide. IV. Identity of preparations of 1:2-dibromo-cyclohexane, II, 117.
- and Buckles, R. E., rôle of neighbouring groups in replacement reactions. I. Retention of configuration in reaction of dihalides and acetoxyhalides with silver acetate. II. Effects of small amounts of water on reaction of silver acetate in acetic acid with butene and cyclohexene derivatives. VI. *cycloHexylene ethyl orthoacetate*, II, 117, 228.
- Buckles, R. E., and Hess, H. V., rôle of neighbouring groups in replacement reactions. V. Effect of neighbouring acetoxy group on course of replacement of *p-toluenesulphonate* group of *trans-2-acetoxy-cyclohexyl p-toluenesulphonate*, II, 117.
- See also Roberts, J. D.
- Winston, J. R. See Miller, E. V.
- Winter, A., structural homogeneity of glass, I, 273.
- Winter, E. A. See McIver, M. A.
- Winter, E. R. S., and Briscoe, H. V. A., interchange of heavy oxygen between water and inorganic oxy-anions, I, 23.
- Winter, J. E. See Mollov, M.
- Winter, M. See Ruzicka, L.
- Winter, S. T., intravenous mercurial diuretic and gum saline potentiation, III, 422.
- Winterhalder, L. See Schöpf, C.
- Winters, J. See Hemphill, F.
- Winters, K., and Greenthal, R. M., [treatment of] influenzal meningitis, III, 507.
- Winters, K. J., and Janney, F. R., sulphadiazine, III, 830.
- Winters, M. See Tomkins, C. A.
- Winters, W. L. See Gottardo, P.
- Wintersberger, K., physical effects of substances highly diluted according to a power law, I, 57.
- Winterstein, H., and Terzioglu, M., intersegmental inhibition in spinal cord of frog, III, 794.
- Wintersteiner, O., and Ruigh, W. L., epimeric 7-hydroxycholesterols, II, 68.
- See also Bergstrom, S.
- Wintgen, R., determination of electrolyte content in intermicellar portion of colloidal solutions, I, 277.
- Wintner, N. See Boynton, R. E.
- Winton, F. R. See Eggleton, M. G.
- Winton, M. G. See Engel, F. L.
- Wintrobe, M. M., Miller, M. H., Follis, R. H., jun., Stein, H. J., Mushatt, C., and Humphreys, S., sensory neuron degeneration in pigs. IV. Protection afforded by calcium pantothenate and pyridoxine, III, 410.
- Stein, H. J., Miller, M. H., Follis, R. H., jun., Najjar, V. A., and Humphreys, S., thiamin deficiency in swine, III, 499.
- See also Follis, R. H., jun.
- Wirth, G. See Fischer, W.
- Wirth, H. E., colorimetric determination of small amounts of metaphosphate and pyrophosphate; determination of iron with thiocyanate in presence of metaphosphate and pyrophosphate, I, 23.
- Wirth, J., tissue cultures and infection, III, 4.
- Wirth, J. C., and Nord, F. F., enzymic breakdown of hexoses and pentoses; interaction between dehydrogenation and fermentation, III, 520.
- See also Sciarini, L. J.
- Wirths, G. See Roth, W. A.
- Wirts, C. W. See Cantarow, A.
- Wirtz, K., specific gravity of deuterium oxide at different temperatures, I, 34. Van't Hoff theory of Soret effect (osmotic pressure in non-isothermal systems), I, 121.
- Wisansky, W. A. See Martin, G. J.

- Wise, B., sedimentation rate in Hodgkin's disease, III, 87. Action of sulphonamides *in vitro* on organisms of *Brucella* group and counteracting effect of *p*-aminobenzoic acid, III, 340.
- Wise, E. C. See Correl, J. T.
- Wise, G., Bowen's disease of cornea, III, 799.
- Wisegarver, B. B. See Alles, G. A.
- Wiselogle, F. Y. See Buhle, E. L.
- Wishart, F. O. See Fraser, D. T.
- Wislicenus, H., fibrous aluminium oxide and its use as an adsorbent in adsorptiometry and chromatoscopy, I, 60.
- Wislocki, G. B., growth of deer antlers, I, III, 221. Lungs of Cetacea, with reference to harbour porpoise (*Phocena phocena*), III, 617. Haemopoiesis in chorionic villi of placenta of platyrhine monkeys, III, 618.
- Witebsky, E., and Heide, A., Rh antibodies in breast milk, III, 864.
- Klendshoj, N. C., and Swanson, P., reduction or elimination of anti-A antibody in O blood by addition of "A" specific substance, III, 82.
- See also Arbesman, C. E., and Klendshoj, N. C.
- With, T. K., determination of bilirubin in urine and faeces, III, 363. Determination of urobilin in urine and faeces, III, 364.
- Withell, E. R., effect of change of concentration on relative [bactericidal] activity of phenol and *p*-chloro-*m*-cresol, III, 60.
- Witkowski, L. J., Fischer, C. N., and Murdock, H. D., industrial illness due to tetryl, III, 424.
- Witschi, E., and Mengert, W. F., endocrine studies on human hermaphrodites and their bearing on interpretation of homosexuality, III, 114.
- Witt, J. H. See Cromwell, N. H.
- Witt, N. F. See Dewey, B. T.
- Witt, W. J. See Bradish, R. F.
- Wittbecker, E. L. See Marker, R. E.
- Wittek, H., Raman effect. CXXXVI. Nitrogen compounds. XXIV. Alkyl nitrates, I, 50. See also Radinger, G.
- Wittenberg, H. J. See Foshay, L.
- Wittig, G., preparative organic chemistry. I. Syntheses with organic lithium compounds, II, 247. and Pieper, G., monomeric fluorenone peroxide, II, 234.
- and Waldi, D., preparation of rubrene, II, 7.
- Witts, L. J., fibrinogen and prothrombin time, III, 6. Disturbances in coagulation of blood, III, 159. Pernicious anaemia and pituitary deficiency, III, 301.
- Wittwer, S. H. See Murneek, A. E.
- Witzberger, C. M., and Cohen, H. G., circulation time in infants and young children determined by fluorescein method, III, 868. See also Benson, R. A.
- Woble, G. K., and Greenberg, B., induction of female behaviour in male *Anolis carolinensis* with testosterone propionate, III, 564.
- Wohlsch, E., optical linear dynamodilatometer, a universal instrument for thermodynamic analysis of highly elastic changes of state, I, 103. See also Jühling, L.
- Woeldike, A. See Schuler, H.
- Woelffer, E. A. See Holmes, A. D.
- Woernley, D. See Watson, W. W.
- Wohl, K., and James, W. O., energy changes associated with plant respiration, III, 216.
- Wohl, M. G., diagnosis and treatment of anterior pituitary disturbances, III, 885.
- Wohlmann, E., determination of tin by titration with methylene-blue, I, 286.
- Woinarsky, A. See Angelescu, E.
- Wojniak, F. See Shambaugh, G. E.
- Wokes, F., Duncan, J., Jacoby, F. C., and Organ, J. G., apparent vitamin-C in foodstuffs, III, 755.
- Jacoby, F. C., Johnson, E. H., and Organ, J. G., vitamins in rose hips, III, 412.
- and Organ, J. G., oxidising enzymes and vitamin-C in tomatoes, III, 703.
- Wokes, F., and Still, B. M., determination of protein by biuret and Greenberg methods, III, 76. See also Booth, R. G.
- Wolbach, S. B. See Gross, R. E.
- Wolcott, M. W. See Lukens, F. D.
- Wolf, A., Kabat, E. A., and Newman, W., distribution of acid phosphatases with reference to nervous system, III, 683. and Pappenheimer, A. M., central nervous system in vitamin-E-deficient rats, III, 798. See also Cowen, D.
- Wolf, A. A. See Unger, L.
- Wolf, B. S. See Silverstone, S. M.
- Wolf, D. E. See Mozingo, R.
- Wolf, E. See Crozier, W. J.
- Wolf, G. See Richards, C. H.
- Wolf, H. See Elman, R.
- Wolf, I. J., prevention of rickets with single massive doses of vitamin-D, III, 903. Safety of large doses of vitamin-D in prevention and treatment of rickets in infancy, III, 903.
- Wolf, J., variations in organic acid contents of saps of birch (*Betula alba*) and maple (*Acer pseudoplatanus*), III, 73. Variations in ascorbic acid contents of cut leaves of *Bruophyllum calycinum* at different temperatures, III, 74.
- Wolf, J. Z. See Nichols, A. A.
- Wolf, R., determination of formaldehyde, II, 348.
- Wolf, S., and Wolf, H. G., "neurogenic fever," III, 15. Genesis of peptic ulcer in man, III, 483.
- Wolf-Heidegger, G., reticuloendothelial system and vitamin-C storage after adrenalectomy, III, 666. Histochemical vitamin-C determinations in choroid plexus epithelium and ependyma, III, 667.
- Wolfe, C. W. See Palache, C.
- Wolfe, J. K. See Talbot, N. B.
- Wolfe, J. M., effects of advancing age on structure of anterior hypophyses and ovaries of female rats, III, 708. and Brown, A. D., action of diethylstilboestrol on cytological characteristics of anterior pituitaries of female rats, with observations on effects of castration, III, 117.
- Wolfe, O., and Wolfe, R. M., hereditary cataracta caerulea, III, 732.
- Wolfe, R. M. See Wolfe, O.
- Wolfermann, A. See Frommel, E.
- Wolferth, C. C., Livezey, M. M., and Wood, F. C., distribution of patterns of ventricular potential which determine forms and significance of electrocardiograms, III, 460.
- Wolff, D., microscopic examination of human labyrinths from patients exposed to loud noises, III, 318. See also Hartmann, A. F.
- Wolff, E. G., and Stewart, H. B., high spinal anaesthesia, III, 138.
- Wolff, H. G., headache mechanisms, III, 466. See also Richards, C. H., and Wolf, S.
- Wolff, R. M. See Cloke, J. B.
- Wolffe, J. B., effects of normal and abnormal thyroid extracts on rabbit heart and liver, III, 321.
- Wolfson, M. L., Brown, A. E., and Smith, C. S., application of mercaptalation assay to synthetic starch, II, 156.
- and Brown, R. L., derivatives of the aldehydrol form of sugars. V. Rotatory power, II, 254.
- Brown, R. L., and Evans, E. F., action of diazomethane on acyclic sugar derivatives. IV. Ketose synthesis, II, 294.
- Brown, R. L., and Waibrot, S. W., action of diazomethane on acyclic sugar derivatives. III. Synthesis of ketoses and of their open-chain (keto) acetates, II, 57.
- and Gardner, T. S., sorbitylglucosides and β -D-pentamethylsorbitol, II, 256.
- Harris, W. D., Johnson, G. F., and Wildi, B. S., structures of osajin and pomiferin, II, 335.
- Wolfrom, M. L., and Morgan, P. W., O-penta-acetyl-d-glucosates of polyhydric alcohols and cellulose, II, 23.
- Wolfsohn, G. See Sambursky, S.
- Wollenweber, H. See Evans, W. E., jun.
- Wolman, I. J., childhood pneumonia, III, 436.
- Borowsky, S., Nicholas, R., and Spur, B., soft curd homogenised milk in infant feeding, III, 185.
- Wolpe, L. Z., and Silverstone, P. C., substitutes for milk in treatment of allergies, III, 443.
- Wong, C. Y., influence of pollination on seed development in *Citrus*, III, 698. Induced parthenocarpy in horticultural crops, III, 701.
- Wong, R. See Christensen, B. F.
- Wood, A. J. See Gunsalus, I. C., and Sigurdsson, G. J.
- Wood, A. V. See Andrews, G. B.
- Wood, B., Splatt, B., and Maxwell, I., effect of vitamin-B₁ on secretion and motor activities of stomach, III, 176.
- Wood, B. L., jun. See Scott, A. W.
- Wood, D. A., adenoacanthoma of pyloric end of stomach, III, 898. See also Holman, E.
- Wood, E. H., and Moe, G. K., blood electrolyte changes in heart-lung preparation, III, 228. See also Kottke, F. J., and Moe, G. K.
- Wood, F. C. See Wolferth, C. C.
- Wood, G. O., and Blalock, A., effects of inhalation of high oxygen concentrations in experimental shock, III, 464.
- Wood, H. G. See Krampitz, L. O.
- Wood, I. J., transfusion in the Middle East, III, 159.
- Wood, J. G., nitrogen metabolism of plants. VI. Inter-relations between respiration rate, carbohydrates, soluble nitrogen compounds, and protein in leaves, III, 362.
- Cruickshank, D. H., and Ruchel, R. H., metabolism of starving leaves. I. Presentation of data; nature of respiration rate/time curves in air and in nitrogen and relation to carbohydrates. II. Changes in amounts of total and chloroplast proteins, chlorophyll, ascorbic-acids, and soluble nitrogen compounds. III. Changes in malic and citric acid contents and inter-relations of these with soluble nitrogen compounds, III, 614.
- and Petrie, A. H. K., nitrogen metabolism of plants. V. Relation of carbohydrate content to protein synthesis in leaves, III, 362.
- Wood, J. H., and Stanfield, J. A., synthesis of naphthalene-2:7-dialdehyde; attempted synthesis of coronene, II, 85.
- Wood, P. See Pinnock, D. D.
- Wood, T. R., and Ross, W. F., keten acetylation of parathyroid hormone, III, 238. Does the parathyroid hormone influence phosphatase activity ?, II, 428. See also Ross, W. F.
- Wood, W. B., jun. See Davis, B. D.
- Wood, W. M. See Morgan, C. T.
- Woodard, H. Q., acid and alkaline glycerophosphatase in tissue and serum, III, 128. Glycerocephosphatases of rat liver cancer produced by feeding *p*-dimethylaminoazobenzene, III, 897.
- Woodard, T. M., behaviour of nurse cells and sperms in semen of *Litorina*, III, 743.
- Woodbury, R. A., and Robinson, G. G., one-ventricle pump and pulmonary arterial pressure of turtle, III, 717. See also Abreu, B. E.
- Woodford, A. O., Laudermark, J. D., and Bailey, E. H., treanorite, a mineral from Crestmore, California, I, 291.
- Woodhall, B., Devine, J. W., and Hart, D., homolateral dilatation of pupil, homolateral paresis, and bilateral muscular rigidity in diagnosis of extradural haemorrhage, III, 728.
- See also Youngstrom, K. A.
- Woodhouse, D. L., effect of injections of H11 on growth of mouse tumours, III, 898. See also Lasnitzki, A.

- Woodhouse, K. W. See Hawk, G. W.
 Woodman, D. See Ormiston, G.
 Woodward, R. M., nutrition of spinach, III, 534.
 Woodmansee, C. W. See Rapp, K. E.
 Woodruff, E. H., phenylethylamines. IV.
 Dimethoxy- and dihydroxy-phenyl-n-propylamines, II, 129.
 Woodruff, H. B. See Foster, J. W., and Waksman, S. A.
 Woodruff, R., and McDonald, J. R., benign and malignant cystic tumours of appendix, III, 660.
 Woods, A. See Pollack, M. A.
 Woods, E. See Brown, A. P.
 Woods, L. A. See Gilman, H.
 Woods, L. H., spin doubling in the doublet Σ states of CO^+ , I, 247. Silicon oxide bands, I, 248.
 Woodward, C. R., jun. See Stokes, J. L.
 Woodward, F. D., and Waddell, W. W., jun., bronchoscopy in newborn infant, III, 722.
 Woodward, G. E., and Reinhart, F. E., effect of pH on production of pyrrolidonecarboxylic and glutamic acid during enzymic hydrolysis of glutathione by rat kidney extract, III, 141.
 Woodward, L. A., and Tyrrell, H. J. V., Raman effect of aqueous solutions of potassium hydrogen fluoride and hydrofluoric acid, I, 11.
 Woodward, R. B., Diels-Alder reaction, II, 119.
 and Blout, E. R., condensation of acyloins with ethyl acetate, II, 234.
 Woodyatt, R. T., and Spetz, M., anticipation in inheritance of diabetes, III, 580.
 Woolf, J. J. See Walker, A. E.
 Woolf, R. B., Viengviver, E., and Allen, W. M., distribution of sodium pregnanediol glucuronide between n-butanol and urine of pregnant women, III, 326.
 Woolf, Y. J. See Halstead, W. C.
 Woolfe, G. See Bergel, F.
 Woolgar, C. W., and Allmand, A. J., action of light on acetaldehyde vapour, I, 260.
 Woolley, D. W., synthesis of inositol in mice [role of pantothenic acid], III, 411.
 and Krampitz, L. O., reversal by phosphatides of antimicrobial action of crystalline protein from wheat, III, 204.
 Law, L. W., and Little, C. C., increase of mammary carcinoma incidence following inoculations of whole blood, III, 489.
 and White, A. G. C., isolation and partial determination of structure of soya-bean lipositol, a new inositol-containing phospholipin, III, 539. Attempts to produce vitamin-deficiency diseases by feeding compounds related structurally to vitamins, III, 822. Production of thiamin deficiency disease by feeding a pyridine analogue of thiamin, III, 823.
 Woolman, A. M. See Bance, S., and Barber, H. J.
 Woelpert, O. C., Schwab, J. L., Saslaw, S., Merino, C., and Doan, C. A., reactions of monkeys to influenza virus A, III, 695.
 See also Doan, C. A., Merino, C., Saslaw, S., and Schwab, J. L.
 Wooster, H., clinical determination of pregnanediol excretion, III, 173.
 Worcester, H. A. See Gilson, W. E.
 Wootton, L. A., and Brown, C., surface area of oxide-coated cathodes by adsorption of gas at low pressures, I, 166.
 Worcester, J. See Wilson, E. B.
 Working, E. B., simple electric relay, I, 166.
 Wortis, H., vitamins in nervous health and disease, III, 41.
 See also Bueding, E.
 Wortis, J., and Goldfarb, W., schizophrenic brain metabolism during insulin shock treatment, III, 234.
 Wortis, S. B. See McKendree, C. A.
 Worzella, W. W., inheritance and interrelationship of components of quality, cold-resistance and morphological characters in wheat hybrids, III, 290.
 Wozasek, O., and Steigmann, F., colon irritation. III. Bulk of faeces, III, 246.
 See also Blick, P.
- Wragg, W. R. See Petrow, V. A.
 Wrenn, S. N. See Whitmore, F. C.
 Wrenshall, G. A., scattering of protons by magnesium nuclei, I, 111.
 and Nichols, H. J., secondary radiation from X-ray filters. I. Single metal filters, I, 112.
 Wright, A. A., vomiting sickness in Jamaica, III, 891.
 Wright, C. I., and Sabine, J. C., inactivation of choline-esterase by morphine, dilaudid, codeine, and desomorphine, III, 911.
 See also Sumwalt, M.
 Wright, D. O., and Kinsey, R. E., renal complications of sulphadiazine, III, 674.
 Wright, G. G., antigenic relationship between horse antibodies and proteins of normal horse serum, III, 360.
 Wright, G. P. See Donaldson, R., and Gaunt, W. E.
 Wright, H. D. See Glover, B. T. J.
 Wright, H. N., and Peters, L., trypanocidal activity and arsenic content of rat blood following intravenous administration of mapharsen, III, 765.
 See also Rodman, F. B.
 Wright, H. P., changes in adhesiveness of blood platelets following parturition and surgical operations, III, 5.
 See also Hamilton, H. A.
 Wright, I. S., physical measures in treatment of peripheral vascular disease, III, 549.
 and Prandoni, A., dicoumarin, III, 547.
 See also Flexner, J., and McDevitt, E.
 Wright, L. D., state of pantothenic acid in blood, III, 335. Inability of pimelic acid to replace biotin as growth factor for *Lactobacillus casei*, III, 354.
 See also Welch, A. D.
 Wright, M. H. See Koser, S. A.
 Wright, N. C., digestion of national wheatmeal, III, 246.
 See also Owen, E. C.
 Wright, P. L., spring moult and spring changes in sexual cycle in weasel, III, 562.
 Wright, R., automatic adjustment of solute concentration in "moving-boundary" method for determination of transport numbers, I, 37.
 Wright, R. H., expedients in laboratory glass working, I, 103. Molecular state of acetic acid vapour; experiment in gaseous equilibrium, I, 254.
 Wright, W. D., functions and performance of the eye, III, 16. Spectral sensitivity of retinal receptors, III, 732.
 Wrightington, M., effect of glucose and sucrose on respiratory quotient and muscular efficiency of exercise, III, 413. Effect of organic nitrates on coronary flow, III, 832.
 Wrook, D. H. See Counsellor, V. S.
 Wu, C. H. See Lo, T. Y.
 Wu, C. S. See Friedlander, G.
 Wu, S. D., anatomical changes in prostate of patients with cirrhosis of liver, III, 122.
 Würger, E. See Karrer, P.
 Wuester, W. O. See Pack, G. T.
 Wüstner, H. See Pongratz, A.
 Wubermann, F., and Wunderley, C., nephelometric determination of serum heat-denaturation, compared with results of Takata-Ara reaction, III, 7.
 Wulf, O. R., distribution of atmospheric ozone, I, 288.
 Wulf, V. J. See Jahn, T. L.
 Wulff, P. See Eckert, E.
 Wulzen, R. See Wagtendonk, W. J. van.
 Wunder, P. A., permeability of capillaries as factor determining degree of hormonal activity, III, 169. Reaction of thyroid gland of chicks to short treatment with thyrotropic hormone, III, 170. Rate of elimination of thyrotropic hormone, III, 240.
 Wunderley, C., preparation and properties of protein sols. II. Sol with l-histidine, d-arginine, l-proline, and l-hydroxyproline, I, 15. Plasma model, III, 768. Nephelometric method of characterising serum-proteins in heat coagula, III, 865.
- Wunderley, C. See also Wührmann, F.
 Wurmser, R., Filitti-Wurmser, S., and Briault, R., blood conservation, III, 5.
 Wyatt, O. S., convulsions [in children] during general anaesthesia, III, 587.
 Wyburn-Mason, R., anomalous forms of aurotoxic idiocy and their bearing on relationship of various types, III, 473.
 Wyckoff, H. O., and Henderson, J. E., spatial asymmetry of Cerenkov radiation as a function of electron energy, I, 293.
 Wydler, E. See Goldberg, M. W.
 Wyk, A. J. A. van der. See Meyer, K. H.
 Wyler, C. I. See Paulson, M.
 Wyman, J., jun., and Ingalls, E. N., nomographic representation of properties of proteins, II, 285.
 Wyman, L. C., and Suden, C. tum, redistribution of body fluids after glucose injections in rats with adrenocortical transplants, III, 23.
 Wyndham, N. R., morphological study of testicular descent, III, 222.
 See also Durie, B.
 Wynne, W. P. See Chatt, J.
 Wyse, A. B., spectra of ten gaseous nebulae, I, 77.
 Wyss, O., Rubin, Martin, and Strandskov, F. B., sulphonamide action. III. Action of substituted *p*-aminobenzoic acids, III, 830.
 Strandskov, F. B., and Schmelkes, F. C., inhibition of bacterial respiration by sulphanilamide and by its inactive isomers, III, 506.
 See also Schmelkes, F. C.
 Wyss, O. A. M., analysis of afferent respiratory vagal effects by interference stimulation, III, 632.
 Wyss-Chodat, F., treponema and sulphonamides, III, 135.
 See also Paillard, R.
- Y.
- Yaczynski, G. K. See Brown, M.
 Yadava, B. P., charge and stability of colloids. III. Potentiometric titrations of ferric hydroxide sol. IV. Potentiometric titrations of aluminium hydroxide sol, I, 256.
 Yager, W. A. See Baker, W. O.
 Yagoda, H., analytical patterns in study of mineral and biological materials, I, 168. Determination of aliphatic nitrate esters; colorimetric method, II, 147.
 See also Goldman, F. H.
 Yajnik, N. A., Chaudhuri, R., and Jain, D. C., magnetic evidence regarding the valency of colourant ions in glass. II., I, 302. Magnetic study of colour changes in copper chloride, I, 307.
 Chand, R., Jain, D. C., and Kapur, A. N., magnetic studies of colour changes in cupric chloride, I, 58.
 Yakovlev, P. I., plantar reflex as criterion of endurance, III, 466.
 Yalda, A. See Briner, E.
 Yamafuji, K., Imagawa, H., and Suzuki, S., activation of catalase in yeast cells by chloroform or toluene, III, 685.
 and Nishioeda, M., metastable oxygen and biological formation of hydrogen peroxide, III, 699.
 Yannet, H., Deutsch, J. V., and Leibovitz, A., sulphathiazole in epidemic Sonne dysentery, III, 604.
 and Leibovitz, A., fibrinolysin test following haemolytic streptococcal infections, III, 526.
 Yant, W. P. See Sayers, R. R.
 Yarbrough, M. See Bell, T. A.
 Yasaki, T. See Nishina, Y.
 Yaskin, H. E., and Schleizinger, N. S., Foster Kennedy syndrome associated with non-neoplastic intracranial conditions, III, 106.
 Yasuda, T. See Iwashita, K.
 Yater, W. M., calcification of pericardium and chronic cardiac compression, III, 549.
 and Coe, F. O., thorotrust hepatosplenography, III, 654.

- Yates, N., and Brash, H., physical and mental characteristics of a pair of like twins reared apart from infancy, III, 224.
- Yates, R. G., and Roberts, R. J., "opalite" type of quicksilver deposit, I, 242.
- Yaw, K. See Joslyn, D. A.
- Yeagley, H. L. See Coleman, H. S.
- Yeazel, L. A., and Deamer, W. C., response to stimulating injection of tatanus toxoid, III, 923.
- Yee, J. Y., vapour thermoregulator [for accurate temperature control of small, insulated rooms], I, 265.
- Yegian, D. See Baisden, L.
- Yeomans, A., Porter, R. R., and Swank, R. L., manifestations of circulatory congestion produced in dogs by rapid infusion, III, 377.
- Yeshoda, K. M., phenylhydrazine anaemia in rats, III, 83.
- Yesnick, L. See Gellhorn, E.
- Yetwin, I. J. See Mautner, H.
- Ying-K'uei, H., pathologic anatomy of human nervous system in avitaminosis, III, 726.
- Yntema, C. L., origin of sensory neurons and sheath cells of IXth and Xth cranial nerves in *Ambystoma*, III, 707.
- Yoe, J. H., and Overholser, L. G., detection of zirconium with 5-chlorobromamine acid, I, 165.
See also Overholser, L. G.
- Yoeli, M. See Kligler, I. J.
- Yoffe, A., and Heymann, E., Antonoff's rule, I, 276.
See also Heymann, E.
- Yolton, N. See Watson, B. A.
- Yorke, W., diagnosis and treatment of malaria in England, III, 419.
See also Fulton, J. D.
- Yoshida, M. See Kawai, S.
- Yosioka, I. See Asahina, Y.
- Youmans, G. P., and Colwell, C. A., effect of staphylococcus toxin on antigen dilution and antibody dilution titres in albino rats, III, 65. Constant antiserum optimal ratios obtained with rat precipitin, III, 149.
and Delves, E., effect of inorganic salts on production of small colony variants by *Staphylococcus aureus*, III, 65.
- Youmans, W. B., Karstens, A. I., and Aumann, K. W., effect of vagotomy and sympathectomy on sensitivity of intestinal smooth muscle to adrenaline, III, 246. Relation of extrinsic nerves of intestine to inhibitory action of atropine and scopolamine on intestinal motility, III, 585.
- Pennington, M., Griswold, H. E., jun., and Gins, J. A., physiological effects at low oxygen tensions of replacing oxygen with carbon dioxide, III, 871.
See also Colwell, C. A.
- Young, C. B. F., and Lundstrom, E. G., electrolytic decomposition of aqueous ammonium chloride solutions, I, 21.
- Young, E. A. E., cranial morphology of Californian lizard *Xantusia vigilis*, III, 449.
- Young, E. E. See Campbell, K. N.
- Young, E. G., food consumption in Halifax, III, 404.
- Young, F., use of autogenous rib cartilage grafts to repair surface defects in dog joints, III, 366.
- Young, H. A. See Young, M. B.
- Young, J., eclamptic phenomenon and placental ischaemia, III, 118. Renal failure after utero-placental damage, III, 486.
- Young, J. M. See Shrader, J. C.
- Young, J. Z. See Gutmann, E., and Holmes, W.
- Young, L. See Barton, A. D.
- Young, L. B. See Jordan, E. B.
- Young, L. E., and Cumberland, M. C., mouse-adapted Lansing strain of poliomyelitis virus. III. Comparison with strain of mouse encephalomyelitis virus isolated from intestines of normal mice, III, 608.
and Merrell, M., mouse-adapted Lansing strain of poliomyelitis virus. II. Quantitative study of reliability of neutralisation test, III, 529.
- Young, L. E. See also Turner, T. B.
- Young, M. B., and Young, H. A., absorption of oxygen by glutathione in alkaline solutions. I. Kinetics of the reaction at pH 9–11, I, 38.
- Young, N. F. See Black, D. A. K.
- Young, R. H. See Farrell, J. I., and Feinberg, S. M.
- Young, R. L. See Potter, E. L.
- Young, R. M., and James, L. H., action of intestinal micro-organisms on ascorbic acid, III, 43.
- Young, T. R. See Aldrich, W. H.
- Young, W. G., Cristol, S. J., and Weiss, F. T., stereoisomerism of unsaturated compounds. VI. Composition of divinylglycol from acraldehyde; system *meso*-*dl*-diethylglycol, II, 290.
See also Roberts, J. D.
- Young, W. R., Mulay, A. S., and Christie, A., effects of polyvinyl alcohol injections on blood and tissues, III, 139.
- Youngken, H. W., jun., and Feldman, H. S., pharmacognosy of *Chionanthus*, III, 151.
and Fischer, E. B., growth effects of pyridine, piperidine, atropine sulphate, and thiamin chloride on *Stramonium* seedlings, III, 73. Action of *Potentilla anserina*, L., and *Potentilla argentea*, L., on isolated guinea-pig uterus, III, 268.
- Fischer, E. B., and Rogers, C. H., pharmacognosy of domestic rye and wheat ergots, III, 151.
- Youngstrom, K. A., Woodhall, B., and Graves, R. W., acetylcholine-esterase content of brain tumours, III, 659.
- Yousef, Y. L. See El-Sherbini, M. A.
- Ysander, F., treatment of tinnitus with prostigmine, III, 643.
- Yu, H., and Koo, T. H., effect of neutral salts on activity of emulsin (β -glycosidase), III, 683.
- Yu, H. T., thermodynamics of interfaces in equilibrium, I, 199.
- Yudkin, J., and Ferguson, A., critique of Bishop Harman test for night vision, III, 554.
- Robertson, G. W., and Yudkin, S., vitamin-A and dark adaptation, III, 733.
See also Kodicek, J. H.
- Yudkin, S. See Yudkin, J.
- Yukawa, H., nature of the mesotron, I, 48.
- Yunich, A. M. See Welch, C. S.
- Z.
- Zabeshinski, J., kinetics of sorption by grains, I, 303.
See also Shuchovitzki, A.
- Zabriskie, E. G., and Brush, A. L., psychoneuroses in war time, III, 100.
- Zacharias, L. R., vidian ganglion as source of innervation of anterior pituitary, III, 391.
- Zacharievski, V. A., detection of aluminium, I, 236.
- Zador, G. See Kocsis, E. A.
- Zahl, P. A., Cooper, F. S., Hutner, S. H., Spitz, S. H., and Sugura, K., action of bacterial toxins on tumours. I. Relationship of tumour-haemorrhagic agent to endotoxin antigens of Gram-negative bacteria, III, 39.
and Hutner, S. H., action of bacterial toxins on tumours. II. Effect of sulphanilamide on haemorrhage induced in tumours by bacterial toxins. III. Properties of purified *Salmonella typhimurium* endotoxin, III, 339, 819.
- Zahn, H. V. See Newman, M. S.
- Zahn, W. See Gold, Harry.
- Zaki, A., and Azzam, R. C., preparation of 3-alkylchromones; effect of substitution on reactivity of 2-methyl group in chromones, II, 380.
- Zaki, M., primary glaucoma, III, 469. Case of left glaucoma of retina, III, 641.
- Zaky, Y. A. H. See Hilditch, T. P.
- Zamchek, N. See Altschule, M. D.
- Zamenhof, S., methods and instruments for selective irradiation of chromatin, III, 348.
- Zanarzu, J. See Lipschitz, A.
- Zander, D. V. See Charkey, L. W.
- Zanko, A. M., and Geller, B. A., diffusion coefficient of Ilkovic's equation, I, 150.
- Zapp, J. A., jun. See Stadie, W. C.
- Zappasodi, P. See Wells, W. F.
- Zappi, E. V., and Simonin, L. M., preparation of a homologue of methylarsepedine, methyl-*As*-methylarsepedine, II, 146.
- Zatokovenko, V. A., essential features of petrology of intrusive complex in neighbourhood of Yatyrgvarts mountain in N. Caucasus, I, 106. Essential geological features of intrusive complex in neighbourhood of Yatyrgvarts mountain in N. Caucasus, I, 107.
- Zavadovski, B. M., metabolism of gonadostimulators in blood and urine of pregnant women, III, 890.
- Zavaritsk, A. N., diagram for determination of plagioclase twins, I, 74.
- Zechmeister, L., and Esque, R. B., stereoisomericides of methylbixin, II, 147.
and LeRosen, A. L., stereochemistry of diphenylpolyenes, II, 86. Stereoisomeric diphenyloctatetraenes, II, 125.
and McNeely, W. H., separation of *cis*- and *trans*-stilbenes by application of chromatographic brush method, II, 27.
- McNeely, W. H., and Solyom, G., chromatography of *cis*- and *trans*-benzoin- and -anisoin-oximes with application of brush method, II, 12.
- See also LeRosen, A. L., and Polgar, A.
- Zeek, P. M., weight of normal human heart, III, 376.
- Zeeman, W. P. C., ophthalmoscopic findings in case of glioma retinae, III, 802.
- Zeile, K., and Kruckenber, W., phosphorylations and reactions with triphenylmethyl chloride, II, 123.
and Meyer, Hildegard, constitution of prosthetic group of cytochrome-c, II, 143, 342.
- Zeise, H., calculation of free energy, entropy, specific heat, and equilibria from spectroscopic data and validity of third law, I, 17, 130. Does a measurable excess of translational or of internal molecular energy occur when gases burn explosively ?, I, 230.
- Zeitlin, S. G. See Baranov, V. I.
- Zeldes, M. See Butler, C. D.
- Zeldorfitsch, J. See Todes, O.
- Zelikman, A. N. See Pogodin, S. A.
- Zelinski, N. D. See Turova-Pollak, M. B.
- Zelinski, V. V., and Sveschnikov, B. J., absorption spectra of phthalacyclohydrazides at different pH values, I, 80.
- Zelle, M. R., genetic constitutions of host and pathogen in mouse typhoid, III, 287.
See also Tyrrell, W. P.
- Zeller, E. A., choline-esterase and diamine oxidase during pregnancy, III, 650. Biological determination of small vitamin-A concentrations, III, 663. Specificity and biological significance of diamine oxidase, III, 681. Theory of choline-esterase inhibition, III, 769. Isolation of (-)-phenyl-lactic acid and phenylpyruvic acid from urine of patients with imbecillitas phenylpyruvica, III, 816.
and Bissegger, A., influencing of enzyme reactions by chemotherapeutic and pharmaceutical substances. II. Choline-esterase of brain and of erythrocytes, III, 842.
- Zeller, J. H. See Hetzer, H. O. and Phillips, R. H.
- Zeller, M., skin tests and passive transfer studies in neurological conditions, III, 16.
- Zellweger, H. See Fanconi, G.
- Zelvin, R. R. See Kursanov, D. N.
- Zemplén, G., and Bognár, R., syntheses of natural phloridzin, II, 84. Synthesis of glucohesperitin, a hesperitin-7-glucoside, II, 84.
- Gerecs, A., and Valatin, T., l-*l*-mannosan [β -mannosan], II, 235.

- Zerfoss, S., and Davis, H. M., solid-phase inversions of calcium orthosilicate, constituent of dolomite-silica brick, I, 310.
- Zerling, V. V., effect of major and minor nutrient elements on pollen germination in plants, III, 291.
- Zervas, L., and Papadimitriou, I., carbohydrates. VI. Constitution of styracitol; transformation of aldoses into ketoses, II, 250.
- Zetzel, L., Banks, B. M., and Sagall, E. L., intestinal absorption of amino-acid mixture in patients with chronic idiopathic ulcerative colitis and enterocolitis, III, 178. See also Abbott, W. O.
- Zetsche, F., and Neger, W., identification of carboxylic acids as ureides with help of carbodi-imides. IX. Preparation of carbodi-imides from thiocarbamides, II, 258.
- and Röttger, G., identification of carboxylic acids as ureides with help of carbodi-imides. VIII. Ureides of *symm.* di-*p*-diethylaminophenylcarbamide, II, 258.
- and Voigt, G., identification of aromatic carboxylic acids as ureides. II, II, 367.
- Zeuner, H., chemotherapy of pneumococcal infections, III, 906.
- Zewi, M., evidence of two phases in regeneration of visual purple, III, 312.
- Ziady, F., polycythæmia with subsequent anaemia, III, 862.
- Zief, M., and Mason, J. P., reactions of morpholinomethanol with compounds containing active hydrogen atoms, II, 209.
- Ziegenspeck, H., physical chemistry of non-wettable, especially waxy, leaves, III, 444.
- Ziegler, E., hardening processes of phenol-formaldehyde resins. VI. "Salireton" [di-*o*-hydroxybenzyl ether], II, 365. See also Zinke, A.
- Ziegler, J. E., jun. See Thomas, L.
- Ziegler, J. M. See Kenney, E. L.
- Ziegler, K., "tervalent" carbon. XVI. Radical-chemical problem and its final solution, II, 5.
- Andreas, F., Herte, P., Knoevenagel, C., and Seib, A., "tervalent" carbon. XVII. Kinetics and energetics of radical dissociations, II, 6.
- and Gänicke, K., "tervalent" carbon. XX. Radicals as catalysts as autoxidation, II, 7.
- and Herte, P., "tervalent" carbon. XIX. Radical hydrogen peroxides; pyrogallol as antioxidant. XXI. Tetracyclohexyl-diphenylethane, II, 7, 27.
- Herte, P., and Whitney, R. B., "tervalent" carbon. XVIII. Disproportionation, II, 6.
- Krockow, E. W., and Schenck, G., synthesis of cantharidin, II, 43.
- Schaaf, E., Schumann, W., Späth, A., and Winkelmann, E., halogenation of unsaturated compounds in the allyl position, Schumann, W., and Winkelmann, E., condensations of γ -bromocrotonic esters with zinc, II, 32.
- Ziegler, M. R. See McQuarrie, I.
- Ziegler, R., quantitative photographic absorption determinations on CH bands of aliphatic alcohols at λ 9100 Å, I, 217.
- Ziegler, W. T., and Andrews, D. H., heat capacity of hexadeuterobenzene, I, 34.
- Brucksch, W. F., jun., and Hickman, J. W., superconductivity. III. Tin, niobium, tantalum, and lead wires, I, 56. See also Brucksch, W. F., jun.
- Zieracks, H. See Dede, L.
- Ziering, A. See Niederl, J. B.
- Ziff, M., adenosine triphosphate-myosin system, III, 307.
- Ziklis, D. S. See Kritschevski, I. R.
- Zilberman, V. A., germanium in coals of Donetz basin, I, 28.
- Zilg, W. See Wieland, H.
- Zilva, S. S. See Penney, J. R.
- Zilverstein, D. B., Chaikoff, I. L., Entenman, C. and Fishler, M. C., turnover rate of phospholipins in dog plasma determined with radioactive phosphorus, III, 415.
- Entenman, C., and Fishler, M. C., calculation of "turnover time" and "turnover rate" from experiments involving use of labelling agents, III, 415.
- Zimens, K. E., surface determinations and diffusion measurements by means of radioactive inert gases. I. and II., I, 35.
- Zimmer, K. G., impact-theory analysis of antigen action, III, 289. See also Born, H. J.
- Zimmerli, A., Nield, C. H., and Russell, W. C., modified antimony trichloride reagent for determination of sterols and vitamin-D₂ and -D₃, III, 616.
- Zimmerman, A. See Stuart, C. A.
- Zimmerman, L. M., and Faller, A., aetiology and treatment of ulcers of leg [relation to changes in veins], III, 162.
- Zimmerman, P. W. See Hitchcock, A. E.
- Zimmerman, W. I., and Tressler, D. K., determination of carotene in fresh and frozen vegetables. II. Carotene content of asparagus and green lima beans, III, 188.
- Zimmermann, J., triterpenediols. VI. Faradiol and arnidiol, II, 240.
- Zink, H. See Busch, M.
- Zinke, A., and Hanus, F., hardening process of phenol-formaldehyde resins. IV., II, 364. and Troger, H., perylene and its derivatives. II., II, 297.
- and Ziegler, E., perylene and its derivatives. III. Synthesis of 2,3:10:11-dibenzo-perylene, II, 297. Hardening processes of phenol-formaldehyde resins. V., II, 365.
- Zinnemann, K., toxin production by three types of *Clostridium diphtheriae*, III, 920. See also Johnstone, K. I.
- Zinner, M. M. See Maher, M. M.
- Zinsser, H. H. See Drinker, N.
- Zippelius, O. See Bernhauer, K.
- Zironi, A., and Carlini, E., [bacterial] spore formation, III, 147.
- Ziskin, M. S., explosion limit of $2\text{H}_2 + \text{O}_2$ mixtures at atmospheric pressure, I, 93.
- Ziskin, T., and Dumas, A. G., drug-induced convulsions in electrocardiogram in epilepsy, Zitrin, A., induction of male copulatory behaviour in a hen following administration of male hormone, III, 481.
- Zittle, C. A. See Henle, G.
- Zivitz, N., allergy to Australian pine, III, 71.
- Zmachinsky, A. See Ellis, L. N.
- Zobell, C. E., effect of solid surfaces on bacterial activity, III, 917.
- and Conn, J. E., thermal sensitivity of marine bacteria, III, 204.
- and Grant, C. W., bacterial utilisation of low concentrations of organic matter, III, 918. See also Gordon, R. D., and Grant, C. W.
- Zohman, B. L., and Silverman, E. G., infectious mononucleosis and encephalomyelitis, III, 87.
- Zollinger, R., surgical treatment of gastric and duodenal ulcers, III, 395. Gastric resection with removal of fundus in treatment of duodenal ulcer, III, 395. Surgical treatment of tumours of stomach, III, 403.
- Zollinger, R., Emery, E. S., jun., and Rutherford, R. E., high intestinal fistula, III, 396. See also Emery, E. S., jun.
- Zolotareva, Z. See Passinski, A.
- Zolotuchin, V. K., salts of tervalent thallium as indicators in alkalimetry and acidimetry, I, 313.
- Zon, L. See Shimkin, M. B.
- Zondek, B., hormonal treatment of amenorrhœa, III, 116. Importance of increased production and excretion of gonadotropic hormone for diagnosis of hydatidiform mole, III, 119. and Bromberg, Y. M., leucocytosis induced by methylacetamide with *p*-chloroxylenol; chemotactic effect of bone marrow, III, 547.
- Brezinski, A., Mandl, F., Sulman, F., and Tietz, H. G., heterotransplantation of human pseudomyxoma peritonei into mice and rats, III, 897.
- Brezinski, A., and Sulman, F., does stimulation of germinal epithelium of immature male rats occur after treatment with gonadotropic hormones, augmentative substance, androgens, and vitamin-E ?, III, 173.
- Zondek, H., Graves' disease and myxœdema, III, 734.
- Zook, H. D. See Whitmore, F. C.
- Zorn, K., degradation of tyrosine and transamination in liver, kidney, and muscle, III, 45.
- Zorzoli, A., and Rugh, R., parthenogenetic stimulation of aged anuran eggs, III, 561.
- Zscheile, F. P., and Comar, C. L., influence of preparative procedure on purity of chlorophyll components as shown by absorption spectra, III, 75. See also White, J. W., jun.
- Zschokke, H. See Del Boca, C.
- Zselyonka, L. See Razgha, A.
- Zsirai, K. See Ludány, G.
- Zubin, J., and Barrera, S. E., effect of electric convulsive therapy on memory, III, 638.
- Zucker, J. M. See Globus, J. H.
- Zucker, L. See Zucker, T. F.
- Zucker, T. F., and Zucker, L., nutritive value of cotton, peanut, and soya-bean seeds, III, 899.
- Zühlendorff, G., product of irradiation of 46,8 -coprostadienol, II, 268. See also Inhoffen, H. H., and Windaus, A.
- Zuev, J. S. See Rabinovitsch, A. J.
- Zuffanti, S., dispenser for corrosive liquids, I, 320.
- Zujutin, I. J., influence of humidity contrasts on mutation rate in *Drosophila*, III, 223.
- Zukerman, V. A. See Altschuler, L. V.
- Zumbusch, M. See Faller, F. E.
- Zurett, S., and Culbertson, J. T., effect of sulphanilamide on several parasitic infections of laboratory rats and mice, III, 341.
- Zurrow, H., Saland, G., Klein, C., and Goldman, S., effect of testosterone propionate in treatment of arteriosclerosis obliterans, III, 327. See also Klein, C.
- Zverkova, M. S. See Uspenskaja, T. A.
- Zvetkov, V., molecular arrangement in anisotropic liquid phase, I, 85.
- Zwarenstein, H., aspects of physiology of pregnancy, III, 479. Simple specific test for occult blood in urine, III, 894.
- Zwemer, R. L. See Lynn, J. G., and Simms, H. S.
- Zwickly, F., clustering of nebulæ. I., I, 79.
- Zwilling, E., restitutions of tail in early chick embryo, III, 619.
- Zworykin, V. K., electron microscopy in chemistry, I, 186.